

JHCTECH IoT Computer
Connecting the Dots

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KMDA
Embedded Box Computer



APPLICATION

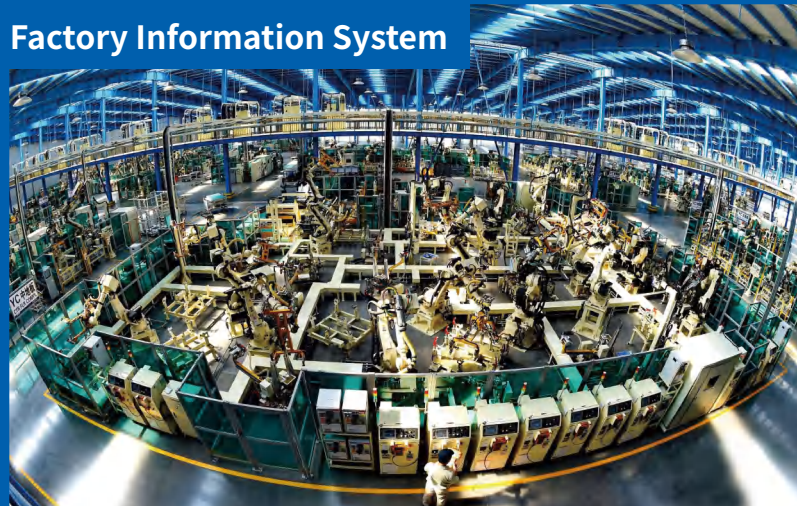


Industrial Automation Equipment

COMPLETE LIST

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Factory Information System



Highway toll



Security Monitoring

地网雪亮工程之智慧社区综治大数据平台



Environmental monitoring



APPLICATION



Medical Equipment



5G



IoT Gateway

Product Listing

       								
	KMDA-2602	KMDA-2602/T002	KMDA-2620	KMDA-2701	KMDA-2702	KMDA-3201	KMDA-3202	KMDA-3212
Processor								
CPU	Intel Baytrail-D Celeron J1900 ,Frequency 2.0~2.42GHz, 4C4T, 2M cache, 22nm, TDP 10W	Intel Baytrail-D Celeron J1900 ,Frequency 2.0~2.42GHz, 4C4T, 2M cache, 22nm, TDP 10W	Intel® Apollolake Atom E3940 CPU	Intel Baytrail-D Celeron J1900 ,Frequency 2.0~2.42GHz, 4C4T, 2M cache, 22nm, TDP 10W	Intel Baytrail-D Celeron J1900 , Frequency 2.0~2.42GHz, 4C4T, 2M cache, 22nm, TDP 10W	Intel Skylake-U/Kabylake-U CPU Celeron/Core i3/i5/i7	Intel Skylake-U/Kabylake-U CPU Celeron/Core i3/i5/i7	Intel Skylake-U/Kabylake-U CPU Celeron/Core i3/i5/i7
RAM	1*DDR3L,1333MHz,SODIMM, 8GB max.	1*DDR3L,1333MHz,SODIMM, 8GB max.	1*DDR3L, 1866MHz, SODIMM, 8GB max.	1*DDR3L, 1333MHz, SODIMM, 8GB max.	1*DDR3L, 1333MHz, SODIMM, 8GB max.	2*260-Pin SODIMM, DDR4,2133MHz, 32GB max. 2*260-Pin SODIMM, DDR4,2133MHz, 32GB max.	2*260-Pin SODIMM, DDR4,2133MHz, 32GB max.	1*DDR4,SODIMM,2133MHz, 16GB max.
Graphics	Intel HD Graphics, Support synchronous or asynchronous dual display, VGA: 1920*1200@60Hz, HDMI: 1920*1080@60Hz, support OpenGL 3.2, DirectX 11, OpenCL 1.2, MPGE2/H.264	Intel HD Graphics, Support synchronous or asynchronous dual display VGA: 1920*1200@60Hz, HDMI: 1920*1080@60Hz, support OpenGL 3.2, DirectX 11, OpenCL 1.2, MPGE2/H.264	Gen. 9th Intel HD Graphics, DP: 4096*2160@60Hz, HDMI: 3840*2160@30Hz,support OpenGL 4.3, DirectX 11, OpenCL 2.0, MPGE2, H.265	Intel HD Graphics, Support dual independent display, VGA: 1920*1200@60Hz, HDMI: 1920*1080@60Hz,support OpenGL 3.2, DirectX 11, OpenCL 1.2, MPGE2/H.264	Intel HD Graphics, Support dual independent display VGA: 1920*1200@60Hz, HDMI: 1920*1080@60Hz,support OpenGL 3.2, DirectX 11, OpenCL 1.2, MPGE2/H.264	Intel Gen. 9th HD Graphics, HEVC/H265 HW HD codec, HDMI: 3840*2160@30Hz, DP: 4096*2304@60Hz	Intel Gen. 9th HD Graphics, HEVC/H265 HW HD codec, HDMI: 3940*2160@30Hz, DP: 4096*2160@60Hz	Intel Gen. 9th HDGraphics, HEVC/H265 HW HD codec, HDMI: 4096*2304@24Hz, DP: 4096*2304@60Hz,VGA: 1920*1200@60Hz
I/O Port								
LAN	4*Intel I211AT PCIe, 10-1000M	2*Intel I211AT PCIe, 10-1000M	4/2*Intel I211AT PCIe, 10-1000M	4*Intel I211AT PCIe, 10-1000M	3*Intel I211AT PCIe, 10-1000M	2*Intel I211AT PCIe, 10-1000M 1*Intel I219 LM support Intel Vpro	2*Intel I211AT PCIe, 10-1000M, 1*Intel I219 LM support Intel Vpro, 4*Intel I211AT PCIe Full bandwidth POE	2*Intel I211AT PCIe, 10-1000M, 1*Intel I219 LM support Intel Vpro,
USB	1* USB3.0, 5*USB2.0 , 1*USB2.0 (Build-in)	1* USB3.0, 3*USB2.0	2* USB3.0, 4/2*USB2.0 , 1*USB2.0 (Build-in)	1* USB3.0, 5*USB2.0 , 1*USB2.0 (Build-in)	1* USB3.0, 5*USB2.0 , 1*USB2.0 (Build-in)	4* USB3.0, 2*USB2.0 , 1*USB2.0 (Build-in)	4* USB3.0, 4*USB2.0 , 1*USB2.0 (Build-in)	4* USB3.0, 2*USB2.0 , 1*USB2.0 (Build-in)
Display	1*HDMI+ 1*VGA	1*HDMI+ 1*VGA	1*DP+1*HDMI	1*VGA+1*HDMI	1*VGA+1*HDMI	1*DP+1*HDMI	1*DP+1*HDMI	1*DP+1*HDMI+1*VGA
Audio	1*Line out,Realtek ALC662VD	1*Line out,Realtek ALC662VD	1*Line out,Realtek ALC662VD	1*Line out+1*Mic, Realtek ALC662VD	1*Line out+1*Mic, Realtek ALC662VD	1*Line out , Realtek ALC662VD	1*Line out+1*Mic,Realtek ALC662VD	1*Line out+1*Mic, Realtek ALC662VD
COM/ Others	2*RS232/422/485, 2*RS232, 2*RS232/485, 1*2 pin terminal, Remote switch, USB mouse/keyboard	2*RS232/422/485, 1*2 pin terminal, Remote switch, USB mouse/keyboard	4/2*RS232/422/485, 2*RS232, 1*2 pin terminal, Remote switch, USB mouse/keyboard	4*RS232/422/485, 2*RS232, 1*2 pin terminal, Remote switch, USB mouse/keyboard	8*RS232/422/485, 2*RS232, 1*2 pin terminal, Remote switch, USB mouse/keyboard	2*RS232/422/485, 4*RS232, 1*2 pin terminal, Remote switch, USB mouse/keyboard	2*RS232/422/485, 4*RS232, 1*PS/2(mouse/keyboard)	2*RS232/422/485, 2*RS232, 1*PS/2(mouse/keyboard)
DIO	8-bit TTL, Programmed input–output	8-bit TTL, Programmed input–output	8-bit TTL, Programmed input–output	24-bit TTL, Programmed input–output	16-bit TTL, Programmed input–output	8-bit TTL, Programmed input–output	8- bit TTL, Programmable input and output 8-bit Iso. DI(High:5-24V,Low:0-1.5V) and 8-bit Iso. DO(100mA)	8-bit TTL, Programmed input–output
Storage								
Storage	1*2.5" HDD SATA2 Bay, 3.0 Gbps, 1*mSATA Full-height card, support AHCI	1*2.5" HDD SATA2 Bay, 3.0 Gbps, 1*mSATA Full-height card, support AHCI	1*2.5" HDD SATA3 Bay, 6.0 Gbps, 1*mSATA Full-height card, support AHCI	1*3.5" HDD SATA2 Bay, 3.0 Gbps, 1*mSATA Full-height card, support AHCI	1*2.5" HDD SATA2 Bay, 3.0 Gbps, 1*mSATA Full-height card, support AHCI	1/2*2.5" HDD SATA3 Bay, 6.0 Gbps, 1*mSATA Full-height card, support AHCI	1*2.5" SATA3 Bay, 6.0 Gbps, SSD/HDD, 1*mSATA Full-height card, support AHCI	1*2.5" SATA3 Bay, 6.0 Gbps, SSD/HDD, 1*mSATA Full-height card, support AHCI
Expansion								
Expansion Port	1*Mini PCIe, with SIM slot, support 4G/Wifi/BT, 1*I-port(LPT/USB2.0/Mini PCIe)	1*Mini PCIe, with SIM slot, support 4G/Wifi/BT,	1*M.2 B-key, with SIM slot, support 4G/Wifi/BT, 1*I-port (LPT/USB2.0/Mini PCIe)	1*Mini PCIe, with SIM slot, support 4G/Wifi/BT	1*Mini PCIe, with SIM slot, support 4G/Wifi/BT	1*Mini PCIe, with SIM slot, 1*M.2 B-key with PCIe+USB signal &SIM slot,support dual 4G/Wifi/BT, 1*I-port(LPT/USB2.0/Mini PCIe)	1*Mini PCIe, with SIM slot, 1*M.2 B-key with PCIe+USB signal &SIM slot,support dual 4G/Wifi/BT, 1*I-port(LPT/USB2.0/Mini PCIe)	1*Mini PCIe, with SIM slot, support 4G/Wifi/BT,
Power Supply								
Input voltage	DC IN 9~36V, D-Jack with M8 interface, short circuit protection, OVP&OCP	DC IN 9~36V, D-Jack with M8 interface, short circuit protection, OVP&OCP	DC IN 9~36V, D-Jack with M8 interface, short circuit protection, OVP&OCP	DC IN 9~36V, D-Jack with M8 interface, short circuit protection, OVP&OCP	DC IN 9~36V, D-Jack with M8 interface, short circuit protection, OVP&OCP	DC IN 9~30V, 3pin terminal, With reverse polarity protection, short circuit protection, OVP&OCP	DC IN 9~30V, 3pin terminal, With reverse polarity protection, short circuit protection, OVP&OCP	DC IN 12~24V, 3pin terminal(front panel),
TDP	14.4W(2.5" HDD)	14.4W(2.5" HDD)	20.04W(E3940 CPU,4G DDR3L)	19.2W(3.5" HDD)	15.6W(2.5" HDD)	27.72W(I5-7200U 8GB)	27.72W(I5-7200U 8GB)	58.56W(I5-7200U 16GB DDR4)
Mechanical								
Structure	Top/Bottom Aluminum Chassis, SGCC frame	Top/Bottom Aluminum Chassis, SGCC frame	Top/Bottom Aluminum Chassis, SGCC frame	U-shaped Aluminum Chassis, SGCC frame	U-shaped Aluminum Chassis, SGCC frame	Aluminum Chassis, SGCC frame	Aluminum Chassis, SGCC frame	Aluminum Chassis, SGCC frame
Color	Silver gray	Silver gray	Silver gray	Silver gray	Silver gray	Silver gray	Silver gray	Silver gray
Installation	desktop mounting & VESA 100*100mm	desktop mounting &VESA 100*100mm	desktop mounting &VESA 100*100mm	desktop mounting	desktop mounting	desktop mounting	desktop mounting	desktop mounting
Dimension	155*111.8*65mm	155*111.6*49mm	155*111.8*65mm	210*144*82.7mm	210*144*82.7mm	210*144.3*75.5mm	210*144.3*75.5mm	200*200*85.3mm
Net Weight	1.30KG	1.05KG	1.30KG	2.60KG	2.60KG	2.20KG	2.20KG	3.3KG
Environmental								
Operating Temp	-20℃~65℃,SSD,with air flow -10℃~55℃,HDD,with air flow	-20℃~65℃,SSD,with air flow -10℃~55℃,HDD,with air flow	-20℃~70℃,SSD,with air flow -10℃~55℃,HDD,with air flow	-20℃~70℃,SSD,with air flow -10℃~55℃,HDD,with air flow	-20℃~70℃,SSD,with air flow -10℃~55℃,HDD,with air flow	-20℃~70℃,SSD,with air flow -10℃~50℃,HDD,with air flow	-20℃~70℃,SSD,with air flow -10℃~50℃,HDD,with air flow	-20℃~70℃,SSD,with air flow -10℃~50℃,HDD,with air flow
Storage Temp	-40℃~85℃	-40℃~85℃	-40℃~85℃	-40℃~85℃	-40℃~85℃	-40℃~85℃	-40℃~85℃	-40℃~85℃
Storage Humidity	10~90%@40℃, No- condensation	10~90%@40℃, No- condensation	10~90%@40℃, No- condensation	10~90%@40℃, No- condensation	10~90%@40℃, No- condensation	10~90%@40℃, No- condensation	10~90%@40℃, No- condensation	10~90%@40℃, No- condensation
Vibration	5 grms/5~500Hz/random/operation (SSD) 1 grms/5~500Hz/random/operation (HDD)	5 grms/5~500Hz/random/operation (SSD) 1 grms/5~500Hz/random/operation (HDD)	5 grms/5~500Hz/random/operation (SSD) 1 grms/5~500Hz/random/operation (HDD)	5 grms/5~500Hz/random/operation (SSD) 1 grms/5~500Hz/random/operation (HDD)	5 grms/5~500Hz/random/operation (SSD) 1 grms/5~500Hz/random/operation (HDD)	5 grms/5~500Hz/random/operation (SSD) 1 grms/5~500Hz/random/operation (HDD)	5 grms/5~500Hz/random/operation (SSD) 1 grms/5~500Hz/random/operation (HDD)	5 grms/5~500Hz/random/operation (SSD) 1 grms/5~500Hz/random/operation (HDD)
Shock	50g peak acceleration(duration 11ms,SSD) 20g peak acceleration(duration 11ms,HDD)	50g peak acceleration(duration 11ms,SSD) 20g peak acceleration(duration 11ms,HDD)	50g peak acceleration(duration 11ms,SSD) 20g peak acceleration(duration 11ms,HDD)	50g peak acceleration(duration 11ms,SSD) 20g peak acceleration(duration 11ms,HDD)	50g peak acceleration(duration 11ms,SSD) 20g peak acceleration(duration 11ms,HDD)	50g peak acceleration(duration 11ms,SSD) 20g peak acceleration(duration 11ms,HDD)	50g peak acceleration(duration 11ms,SSD) 20g peak acceleration(duration 11ms,HDD)	50g peak acceleration(duration 11ms,SSD) 20g peak acceleration(duration 11ms,HDD)
Certificate/ EMC	CE/FCC Class A	CE/FCC Class A	CE/FCC Class A	CE/FCC Class A	CE/FCC Class A	CE/FCC Class A	CE/FCC Class A	CE/FCC Class A
OS	Windows 7, Windows 8.1, Windows 10, Linux Fedora,Ubuntu	Windows 7, Windows 8.1, Windows 10, Linux Fedora,Ubuntu	Windows 7, Windows 8.1, Windows 10, Linux Fedora,Ubuntu	Windows 7, Windows 8.1, Windows 10, Linux Fedora,Ubuntu	Windows 7, Windows 8.1, Windows 10, Linux Fedora,Ubuntu	Windows 7, Windows 10, Linux Fedora,Ubuntu	Windows 7, Windows 10, Linux Fedora,Ubuntu	Windows 7, Windows 10, Linux Fedora,Ubuntu
Watchdog timer	Programmable via software 1 to 255 second	Programmable via software 1 to 255 second	Programmable via software 1 to 255 second	Programmable via software 1 to 255 second	Programmable via software 1 to 255 second	Programmable via software 1 to 255 second	Programmable via software 1 to 255 second	Programmable via software 1 to 255 second

Product Listing

																								
KMDA-3230		KMDA-3601		KMDA-3602		KMDA-3820		KMDA-3610		KMDA-3920		KMDA-3920ETC		KMDA-3921										
Processor																								
CPU	Intel® Whiskey lake U Celeron/Core i3/i5/i7			Intel Skylake-S/Kabylake-S Celeron/ Pentium/Core i3/i5/i7, Q170 Chipset			Intel Skylake-S/Kabylake-S Celeron/ Pentium/Core i3/i5/i7, Q170 Chipset			Intel Skylake-S/Kabylake-S Celeron/ Pentium/Core i3/i5/i7, H110 Chipset			Intel Skylake-S/Kabylake-S Celeron/ Pentium/Core i3/i5/i7 H110 Chipset,optional Q170 Chipset			Intel Skylake-S/Kabylake-S Celeron/ Pentium/Core i3/i5/i7 H110 Chipset,optional Q170 Chipset								
RAM	2*DDR4 SODIMM,2400MHz, 32GB max.			2*260-Pin SODIMM, DDR4,2133MHz, 32GB max.			2*260-Pin ,DDR4,2133/2400MHz, 32GB max.			2*260-Pin ,DDR4,2133/2400MHz, 32GB max.			2*260-Pin ,DDR4,2133/2400MHz, 32GB max.			2*260-Pin ,DDR4,2133/2400MHz, 32GB max.								
Graphics	Intel® Gen. 9 UHD Graphics,Support dual independent display HDMI: 4096*2304@24Hz DP: 4096*2304@60Hz			Intel Gen. 9 HD Graphics, HEVC/H265 HW HD codec,support 3 independent display DP: 4096*2304@60Hz,VGA: 2650*1600@60Hz, HDMI: 3840*2160@30Hz,			Intel® Gen. 9 HD Graphics, HEVC/H265 HW HD codec, DP/HDMI support dual 4K HD display 1*MXM3.1 GPU module, support max. 120W GPU, 3*DP & 1*HDMI four 4K display			Intel Gen. 9th HD Graphics, HEVC/H265 HW HD codec, HDMI: 3840*2160@30Hz, DP: 4096*2304@60Hz,VGA: 1920*1200@60Hz, support 2 independent display+1 copy display			Intel Gen. 9 HD Graphics,HEVC/H265 HW HD codec, HDMI: 3840*2160@30Hz, DP: 4096*2304@60Hz,VGA: 1920*1200@60Hz, support 3 independent display(Intel Q170)			Intel Gen. 9 HD Graphics,HEVC/H265 HW HD codec, HDMI: 3840*2160@30Hz, DP: 4096*2304@60Hz,VGA: 1920*1200@60Hz, support 3 independent display(Intel Q170)			Intel Gen. 9 HD Graphics,HEVC/H265 HW HD codec, HDMI: 3840*2160@30Hz, DP: 4096*2304@60Hz,VGA: 1920*1200@60Hz, support 3 independent display (Intel Q170)					
I/O Port																								
LAN	4*Intel I210AT PCIe, 10-1000M, 1*Intel®I219LM			2*Intel I210AT PCIe,10-1000M, 1*Intel I219 LM support Intel Vpro, 4*Intel I210AT Full bandwidth POE, optional 8/11*Gig LAN			2*Intel I211AT PCIe ,10-1000M, 1*Intel I219 LM support Intel Vpro, optional 4*LAN			1*Intel I211AT PCIe ,10-1000M, 1*Intel I219 LM,support Intel Vpro,			1*Intel I211AT PCIe ,10-1000M, 1*Intel I219 LM support Intel Vpro(Intel Q170),			1*Intel I211AT PCIe ,10-1000M, 1*Intel I219 LM support Intel Vpro(Intel Q170),			1*Intel I211AT PCIe ,10-1000M, 1*Intel I219 LM. support Intel Vpro(Intel Q170),					
USB	4* USB3.1, 2*USB2.0			6* USB3.0, 2*USB2.0 , 1*USB2.0 (Build-in)			6* USB3.0, 2*USB2.0 , 1*USB2.0 (Build-in)			4* USB3.0, 2*USB2.0 , 1*USB2.0 (Build-in)			4* USB3.0, 2*USB2.0 , 1*USB2.0 (Build-in)			4* USB3.0, 1*USB2.0 (Build-in)			4* USB3.0, 2*USB 2.0, 1*USB2.0 (Build-in)					
Display	1*DP+1*HDMI			1*DP+1*HDMI+1*VGA			1*DP+1*HDMI+1*VGA			1*DP+1*HDMI+1*VGA			1*DP+1*HDMI+1*VGA			1*DP+1*HDMI+1*VGA			1*DP+1*HDMI+1*VGA					
Audio	1*Line out+1*Mic, Realtek ALC662VD			1*Line out+1*Mic,Realtek ALC662VD			1*Line out+1*Mic,Realtek ALC662VD			1*Line out+1*Mic,Realtek ALC662VD			1*Line out+1*Mic, Realtek ALC662VD			1*Line out+1*Mic, Realtek ALC662VD			1*Line out+1*Mic, Realtek ALC662VD					
COM/ Others	2*RS485, 3*RS232,			2*RS232/422/485, 2*RS232,			2*RS232/422/485			2*RS232/422/485, 2*RS232, 1*PS/2(mouse/keyboard)			2*RS232/422/485, 2*RS232, 1*PS/2(mouse/keyboard)			2*RS232/422/485, 8*RS232, 1*PS/2(mouse/keyboard)			2*RS232/422/485 , 2*RS232, 1*PS/2(mouse/keyboard)					
DIO	8-bit iso DIO(4-bit 2.5KV optical Iso. DO,4-bit 2.5KV optical Iso. DI)			16/24-bit optical Iso. DIO optional 16-bit TTL Programmable input and output			16/24-bit optical Iso. DIO optional 16-bit TTL Programmable input and output			8-bit TTL, Programmable DIO 16-bit TTL, Programmable DIO			8-bit TTL, Programmable DIO			16-bit Programmable DIO (2*10Pin) 16-bit Programmable DIO(DB25),TTL			8-bit DIO(2*5Pin) 16-bit DIO(build-in),TTL, programmable input & output					
Storage																								
Storage	1*2.5" SATA port, 1*mSATA Full-height card, support AHCI			2*2.5" SATA,HDD/SSD, 1*mSATA Full-height card, 1*M.2 B-key with SIM slot			1*2.5" SATA3,HDD/SSD, 1*mSATA Full-height card, 1*M.2 B-key with SIM slot			1*2.5" SATA3,HDD/SSD, 1*mSATA Full-height card, support AHCI			2*2.5" SATA3,HDD, 1*mSATA Full-height card,1*M.2 2242 B-key			2*2.5" SATA3 HDD,support RAID0,1(Intel Q170), 1*mSATA,1*M.2 2242 B-key			2*2.5" SATA3,HDD,support RAID0,1(Intel Q170), 1*mSATA,1*M.2 2242 B-key					
Expansion																								
Expansion Port	1*Mini PCIe, with SIM slot, support 3G/4G/Wifi/ BT/ GPRS,1*M.2 E-key 2230 Wifi/BT module expansion, 1*I-Port(LPT/USB2.0/Mini PCIe)			1*Mini PCIe, with SIM slot, 1*half length Mini PCIe,support dual 4G LTE/Wifi/BT, 1*I-Port(LPT/USB2.0/Mini PCIe)			1*Mini PCIe, with SIM slot., 1*half length Mini PCIe,support dual 4G LTE/Wifi/BT & GPS/BDS 1*I-port(LPT/USB2.0/Mini PCIe)			1*Mini PCIe, with SIM slot, support 4G/Wifi/BT,1* PCIe X4(X4 signal), 1*PCIe X4(X1signal),or 2*PCI 1*I-port(LPT/USB2.0/Mini PCIe...etc)			1*Mini PCIe, with SIM slot, support 4G/Wifi/BT			1*Mini PCIe, with SIM slot, support 4G LTE/Wifi/BT, 1*PCIe X16, 1*PCIe X4, or 2*PCI, 1*I-port(LPT/USB2.0/Mini PCIe)			1*Mini PCIe, with SIM slot, support 4G LTE/Wifi/BT, 1*PCIe X16,or 1*PCI					
Power Supply																								
Input voltage	DC IN 9~36V, 3pin terminal,			DC 6~48V input,			DC 6~48V input,			DC 12~24V input,			DC 12~24V input,			DC 12~24V input,			DC 12~24V input,					
TDP	30W (I5-8265U , 8GB DDR4, 128GB SSD)			38W(I5-7500T , 4GB RAM, 128G SSD)			115.92W (I5-7500T +GTX 1060M GPU)			58.56W (I5-7200U 16GB DDR4)			68.4W (I7-6700T CPU 16GB DDR4)			68.78W (I7-6700T , 4GB DDR4, 1TB HDD)			68.78W (I7-6700T , 4GB DDR4, 1TB HDD)					
Mechanical																								
Structure	Aluminum Chassis, SGCC frame			Aluminum Chassis, SGCC cover			Aluminum Chassis, SGCC frame and cover			Aluminum rectangular cooling plates, SGCC paint main cabinet			Aluminum rectangular cooling plates, SGCC paint main cabinet			Aluminum rectangular cooling plates, SGCC paint main cabinet			Aluminum rectangular cooling plates, SGCC paint main cabinet					
Color	Silver gray			Silver gray			Silver gray			Silver gray			Silver gray			Silver gray			Silver gray					
Installation	desktop mounting			desktop mounting			desktop mounting,Anti-vibration plane			desktop mounting			desktop mounting			desktop mounting,wall-mount			desktop mounting,wall-mount					
Dimension	210*147*78mm			284*222*84.7mm			284*222*81mm			200*200*128.3mm			221*251*88mm			220*250*131mm			220*250**131.5mm			220*250**172mm		
Net Weight	2.29KG			4.65KG			5.60KG(non GPU)			3.65KG			4.84KG			5.27KG			5.27KG			5.58KG		
Environmental																								
Operating Temp	-20℃~70℃,SSD,with air flow -10℃~50℃,HDD,with air flow			-20℃~65℃,SSD,with air flow -10℃~55℃,HDD,with air flow			-20℃~65℃,SSD,with air flow -10℃~50℃,HDD,with air flow			-20℃~70℃,SSD,with air flow -10℃~50℃,HDD,with air flow			-20℃~65℃,SSD,with air flow -10℃~55℃,HDD,with air flow			-20℃~65℃,SSD,with air flow -10℃~55℃,HDD,with air flow			-20℃~65℃,SSD,with air flow -10℃~55℃,HDD,with air flow					
Storage Temp	-40℃~85℃			-40℃~85℃			-40℃~85℃			-40℃~85℃			-40℃~85℃			-40℃~85℃			-40℃~85℃					
Storage Humidity	10~90%④40℃, No- condensation			10~90%④40℃, No- condensation			10~90%④40℃, No- condensation			10~90%④40℃, No- condensation			10~90%④40℃, No- condensation			10~90%④40℃, No- condensation			10~90%④40℃, No- condensation					
Vibration	5 grms/5~500Hz/random/operation (SSD) 1 grms/5~500Hz/random/operation (HDD)			5 grms/5~500Hz/random/operation (SSD) 1 grms/5~500Hz/random/operation (HDD)			5.5 grms/5~500Hz/random/operation (SSD) 1.5 grms/5~500Hz/random/operation (HDD)			5 grms/5~500Hz/random/operation (SSD) 1 grms/5~500Hz/random/operation (HDD)			5 grms/5~500Hz/random/operation (SSD) 1 grms/5~500Hz/random/operation (HDD)			5 grms/5~500Hz/random/operation (SSD) 1 grms/5~500Hz/random/operation (HDD)			5 grms/5~500Hz/random/operation (SSD) 1 grms/5~500Hz/random/operation (HDD)					
Shock	50g peak acceleration(duration 11ms,SSD) 20g peak acceleration(duration 11ms,HDD)			50g peak acceleration(duration 11ms,SSD) 20g peak acceleration(duration 11ms,HDD)			50g peak acceleration(duration 11ms,SSD) 20g peak acceleration(duration 11ms,HDD)			50g peak acceleration(duration 11ms,SSD) 20g peak acceleration(duration 11ms,HDD)			50g peak acceleration(duration 11ms,SSD) 20g peak acceleration(duration 11ms,HDD)			50g peak acceleration(duration 11ms,SSD) 20g peak acceleration(duration 11ms,HDD)			50g peak acceleration(duration 11ms,SSD) 20g peak acceleration(duration 11ms,HDD)					
Certificate /EMC	CE/FCC Class A			CE/FCC Class A			CE/FCC Class A,E-Mark			CE/FCC Class A			CE/FCC Class A			CE/FCC Class A			CE/FCC Class A					
OS	Windows 10, SUSE, Ubuntu, Wind River, Red Hat Enterprise			Windows 7, Windows 10, Linux Fedora,Ubuntu			Windows 7, Windows 10, Linux Fedora,Ubuntu			Windows 7, Windows 10, Linux Fedora,Ubuntu			Windows 7, Windows 10, Linux Fedora,Ubuntu			Windows 7, Windows 10, Linux Fedora,Ubuntu			Windows 7, Windows 10, Linux Fedora,Ubuntu					
Watchdog timer	Programmable via software 1 to 255 second			Programmable via software 1 to 255 second			Programmable via software 1 to 255 second			Programmable via software 1 to 255 second			Programmable via software 1 to 255 second			Programmable via software 1 to 255 second			Programmable via software 1 to 255 second					

Product Listing

KMDA-5610/S001		KMDA-5610/S002		KMDA-5920/S001		KMDA-5920/S002		KMDA-5921/S001		KMDA-5921/S002		KMDA-6610		KMDA-6920										
Processor																								
CPU	Intel® Coffee lake 9th/8th-Gen Core™ i7/i5/i3/Pentium/Celeron LGA1151 processor H310 chipset			Intel® Coffee lake 9th/8th-Gen Core™ i9/i7/i5/i3/Pentium/Celeron LGA1151 CPU Q370 chipset			Intel® Coffee lake 9th/8th-Gen Core™ i7/i5/i3/Pentium/Celeron LGA1151 processor H310 chipset			Intel® Coffee lake 9th/8th-Gen Core™ i7/i5/i3/Pentium/Celeron LGA1151 processor H310 chipset			Intel® Coffee lake 9th/8th-Gen Core™ i7/i5/i3/Pentium/Celeron LGA1151 processor Q370 chipset			Intel® Comet lake 10th Gen Core™ i9/i7/i5/i3/Pentium/Celeron LGA1200 CPU H420E Chipset			Intel® Comet lake 10th Gen Core™ i9/i7/i5/i3/Pentium/Celeron LGA1200 CPU H420E Chipset					
RAM	2*260-Pin ,DDR4,2400/2666MHz, 64GB max.			4*260-Pin ,DDR4,2400/2666MHz, 128GB max.			2*260-Pin ,DDR4,2400/2666MHz, 64GB max.			4*260-Pin ,DDR4,2400/2666MHz, 128GB max.			2*260-Pin ,DDR4,2400/2666MHz, 128GB max.			2*260-Pin ,DDR4,2933MHz, 64GB Max.			2*260-Pin ,DDR4,2933MHz, 64GB Max.					
Graphics	Intel UHD Graphics, Supports DirectX11.1, OpenGL 5.0 and OpenCL 2.1 or PCIe X16, DP:4096*2304@60Hz,VGA:1900*1200@60Hz, HDMI:3840*2160@30Hz(2 independent displays, 1 Copy Display)			Intel UHD Graphics, Supports DirectX11.1, OpenGL 5.0 and OpenCL 2.1, DP:4096*2304@60Hz,VGA:1920*1200@60Hz, DP:4096*2304@60Hz (3 independent display)			Intel UHD Graphics, Supports DirectX11.1, OpenGL 5.0 and OpenCL 2.1 or PCIe X16, DP:4096*2304@60Hz, VGA:1900*1200@60Hz, HDMI:4096*2160@30Hz(2 independent displays, 1 Copy Display)			Intel UHD Graphics, Supports DirectX11.1, OpenGL 5.0 and OpenCL 2.1 or PCIe X16, DP:4096*2304@60Hz,VGA:1900*1200@60Hz, support 3 independent display			Intel UHD Graphics, Supports DirectX11.1, OpenGL 5.0 and OpenCL 2.1 or PCIe X16, DP:4096*2304@60Hz, VGA1900*1200@60Hz, support 3 independent display			Intel UHD Graphics, Supports DirectX12, OpenGL 4.5; DP:4096*2304@60Hz, VGA:1900*1200@60Hz, HDMI: 4096*2160@30Hz (2 independent display)			Intel UHD Graphics, Supports DirectX12, OpenGL 4.5; DP:4096*2304@60Hz, VGA:1900*1200@60Hz, HDMI: 4096*2160@30Hz (2 independent display)					
I/O Port																								
LAN	1*Intel I210AT PCIe ,10-1000M, 1*Intel I219 LM,			2*Intel I211AT/I210AT, 10-1000M, WOL; 1*Intel I219 LM, 10-1000M, iAMT13.0,vPro;			1*Intel I210AT PCIe ,10-1000M, 1*Intel I219 LM,			2*Intel I210AT PCIe ,10-1000M, 1*Intel I219 LM, support Intel Vpro			1*Intel I210AT PCIe ,10-1000M, 1*Intel I219 LM			2*Intel I210AT PCIe ,10-1000M, 1*Intel I219 LM support Intel Vpro			1*Intel I226V, PCIe X1, 10M-2.5G, WOL; 1*Intel I219 LM, 10-1000M, WOL			1*Intel I226V, PCIe X1, 10M-2.5G, WOL; 1*Intel I219 LM, 10-1000M, WOL		
USB	4* USB3.1, 2*USB2.0, 1*USB2.0(Build-in)			6* USB3.1, 2*USB2.0, 2*USB2.0(Build-in)			4* USB3.1, 2*USB2.0, 1*USB2.0(Build-in)			6* USB3.1, 2* USB2.0, 2*USB2.0(Build-in)			4* USB3.1, 2*USB2.0, 1*USB2.0(Build-in)			6* USB3.1, 2*USB2.0, 2*USB2.0(Build-in)			4* USB3.2 Gen1, 2*USB2.0, 2*USB2.0(Build-in) 4* USB3.2 Gen1, 2*USB2.0, 2*USB2.0(Build-in)					
Display	1*DP+1*HDMI+1*VGA			2*DP+1*VGA			1*DP+1*HDMI+1*VGA			2*DP+1*VGA			1*DP+1*HDMI+1*VGA			2*DP+1*VGA			1*DP+1*HDMI+1*VGA			1*DP+1*HDMI+1*VGA		
Audio	1*Line out+1*Mic, Realtek ALC662VD			1*Line out+1*Mic,Realtek ALC662			1*Line out+1*Mic, Realtek ALC662VD			1*Line out+1*Mic, Realtek ALC662VD			1*Line out+1*Mic, Realtek ALC662VD			1*Line out+1*Mic, Realtek ALC662VD			1*Line out+1*Mic, Realtek ALC 897			1*Line out+1*Mic, Realtek ALC 897		
COM/Others	2*RS232/422/485, 2*RS232,			2*RS232/422/485, 2*RS232;			2*RS232/422/485, 2*RS232,			2*RS232/422/485, 2*RS232,			2*RS232/422/485, 2*RS232,			2*RS232/422/485, 2*RS232,			2*RS232/422/485, 2*RS232; 1*LPT, 1*PS/2			2*RS232/422/485, 2*RS232; 1*LPT, 1*PS/2		
DIO	16-bit iso DIO: 8-bit Iso. DI(High:5-24V,Low:0-1.5V) and 8-bit Iso. DO(200mA)			16 bit iso. DIO(2*10pin); 16 bit DIO(2*10pin)			16-bit iso DIO: 8-bit Iso. DI(High:5-24V,Low:0-1.5V) and 8-bit Iso. DO(200mA)			16-bit iso DIO: 8-bit Iso. DI(High:5-24V,Low:0-1.5V) and 8-bit Iso. DO(200mA)			16-bit iso DIO: 8-bit Iso. DI(High:5-24V,Low:0-1.5V) and 8-bit Iso. DO(200mA)			16-bit iso DIO: 8-bit Iso. DI(High:5-24V,Low:0-1.5V) and 8-bit Iso. DO(200mA)			8-bit DIO,TTL 16-bit DIO(2*10 pin)			8-bit DIO,TTL 16-bit DIO(2*10 pin)		
Storage																								
Storage	2*2.5" SATA3,HDD, 1*mSATA,with SIMslot,support 4G			2*2.5" SATA3,RAID0,1; 1*Mini PCIe(SATA3.0/USB2.0), mSATA			2*2.5" SATA3,HDD, 1*mSATA,with SIM slot,support 4G			2*2.5" SATA3,support RAID0,1, 1*M.2 M-Key,PClex4 Gen3.0, support NVME storage			2*2.5" SATA3,HDD, 1*full length Msata with SIM slot,support 4G			2*2.5" SATA3, support RAID0,1, 1*M.2 M-Key,PClex4 Gen3.0, support NVME storage			2*2.5" SATA3, 6Gbps; 1*mSATA(SATA3.0/USB2.0)			2*2.5" SATA3, 6Gbps; 1*mSATA(SATA3.0/USB2.0)		
Expansion																								
Expansion Port	1*M.2 E-Key 2230, Support Gigabit WFI module, 1*I-port(LPT/USB2.0/16-bit DIO/Mini PCIe)			1*M.2 E-Key 2230(PCIeX1&USB2.0); 1*Mini PCIe(SATA3.0/USB2.0+SIM)			1*M.2 E-Key 2230, Support Gigabit WFI module, 1*PCIe X16, 1*PCIe X4, 1*Mini PCIe,with SIM slot. support4G/WIFI/BT 1*I-port(LPT/USB2.0/16-bit DIO/Mini PCIe)			1*M.2 B-Key,with SIM slot. support5G, 1*M.2 E-Key, 1*PCIe X16,1*PCIe X4, 1*Mini PCIe,with SIM slot. support4G/WIFI/BT 1*I-port(LPT/USB2.0/16-bit DIO/Mini PCIe)			1*M.2 E-Key 2230, Support Gigabit WFI module/BTS.0 1*PCIe X16, 1*PCIe X4 , 2*32-bit PCI 1*I-port(LPT/USB2.0/16-bitDIO/Mini PCIe)			1*M.2 B-Key,with SIM slot. support 5G, 1*M.2 E-Key, 1*Mini PCIe,with SIM slot. support4G/WIFI/BT, 1*I-port(LPT/USB2.0/16-bit DIO/Mini PCIe), 2*PCIe X8,2*PCIe X4 or 1*PCIe X16,1*PCIe X4,2*PCI			1*Mini PCIe(PCIeX1/USB2.0+SIM), 4G LTE/PCIe;			1*PCIe3.0 X16(X16)+1*PCIe3.0 X16(X4) ; or 1*PCIe3.0 X16(X16)+ 1*32-bit PCI; 1*Mini PCIe(PCIeX1/USB2.0+SIM), 4G LTE/PCIe;		
Power Supply																								
Input voltage	DC IN 9-36V ,with protection of short circuit, over voltage, over current;			DC IN 9-36V , with protection of short circuit, over voltage, over current			DC IN 9-36V ,with protection of short circuit, over voltage, over current			DC IN 9-36V ,with protection of short circuit, over voltage, over current			DC IN 9-36V ,with protection of short circuit, over voltage, over current			DC IN 9-36V ,with protection of short circuit, over voltage, over current			DC IN 9-36V ,with protection of short circuit, over voltage, over current			DC IN 9-36V ,with protection of short circuit, over voltage, over current		
TDP	96W(i7-8700 ,32G DDR4,128G SSD)			功耗: 60.5W (i7-8700T , 32G DDR4, 128G SSD)			60.5W(i7-8700T,16G DDR4,128G SSD)			60.5W(i7-8700T,16G DDR4,128G SSD)			48.5W(i7-9700,16G DDR4,128G SSD)			48.5W(i7-9700,16G DDR4,128G SSD)			59.5W(i5-10500 /4G DDR4/256G SSD)			57.2W(i7-10700TE /4G DDR4/256G SSD)		
Mechanical																								
Structure	Aluminum Chassis, SGCC frame			Aluminum Chassis, SGCC frame			Aluminum Chassis, SGCC frame			Aluminum Chassis, SGCC frame			Aluminum Chassis, SGCC frame			Aluminum Chassis, SGCC frame			Aluminum Chassis, SGCC frame			Aluminum Chassis, SGCC frame		
Color	Silver white + Aquamarine			Silver white + Aquamarine			Silver white + Aquamarine			Silver white + Aquamarine			Silver white + Aquamarine			Silver white + Aquamarine			Silver white + Aquamarine			Silver white + Aquamarine		
Installation	desktop mounting			desktop mounting			desktop mounting			desktop mounting			desktop mounting			desktop mounting			desktop mounting			desktop mounting		
Dimension	230*267.3*92mm			230*267.3*92mm			230*273*143mm			230*273*143mm			230*273*204mm			230*273*204mm			230*267.3*92mm			230*273*143mm		
Net Weight	5.1KG			5.1KG			5.9KG			5.9KG			7.25KG			7.25KG			5.12KG			5.9KG		
Environmental																								
Operating Temp	-20℃~-60℃,SSD,with air flow -10℃~-55℃,HDD,with air flow			-20℃~-60℃,SSD, with air flow; -10℃~-55℃,HDD, with air flow;			-20℃~-60℃,SSD,with air flow -10℃~-55℃,HDD,with air flow			-20℃~-60℃,SSD,with air flow -10℃~-55℃,HDD,with air flow			-20℃~-60℃,SSD,with air flow -10℃~-55℃,HDD,with air flow			-20℃~-60℃,SSD,with air flow -10℃~-55℃,HDD,with air flow			-20℃~-60℃,SSD,with air flow -10℃~-55℃,HDD,with air flow			-20℃~-60℃,SSD,with air flow -10℃~-55℃,HDD,with air flow		
Storage Temp	-40℃~85℃			-40℃~85℃			-40℃~85℃			-40℃~85℃			-40℃~85℃			-40℃~85℃			-40℃~85℃			-40℃~85℃		
Storage Humidity	10~90%@40℃, No- condensation			10~95%@40℃, No-condensation			10~90%@40℃, No- condensation			10~90%@40℃, No- condensation			10~90%@40℃, No- condensation			10~90%@40℃, No- condensation			10~90%@40℃, No- condensation			10~90%@40℃, No- condensation		
Vibration	5 grms/5~500Hz/random/operation (SSD) 1 grms/5~500Hz/random/operation (HDD)			5 grms/5~500Hz/random/operation(SSD); 1 grms/5~500Hz/random/operation(HDD)			5 grms/5~500Hz/random/operation (SSD) 1 grms/5~500Hz/random/operation (HDD)			5 grms/5~500Hz/random/operation (SSD) 1 grms/5~500Hz/random/operation (HDD)			5 grms/5~500Hz/random/operation (SSD) 1 grms/5~500Hz/random/operation (HDD)			5 grms/5~500Hz/random/operation (SSD) 1 grms/5~500Hz/random/operation (HDD)			5 grms/5~500Hz/random/operation (SSD) 1 grms/5~500Hz/random/operation (HDD)			5 grms/5~500Hz/random/operation (SSD) 1 grms/5~500Hz/random/operation (HDD)		
Shock	50g peak acceleration(duration 11ms,SSD) 20g peak acceleration(duration 11ms,HDD)			50g peak acceleration(duration 11ms,SSD); 20g peak acceleration(duration 11ms,HDD)			50g peak acceleration(duration 11ms,SSD) 20g peak acceleration(duration 11ms,HDD)			50g peak acceleration(duration 11ms,SSD) 20g peak acceleration(duration 11ms,HDD)			50g peak acceleration(duration 11ms,SSD) 20g peak acceleration(duration 11ms,HDD)			50g peak acceleration(duration 11ms,SSD) 20g peak acceleration(duration 11ms,HDD)			50g peak acceleration(duration 11ms,SSD) 20g peak acceleration(duration 11ms,HDD)			50g peak acceleration(duration 11ms,SSD) 20g peak acceleration(duration 11ms,HDD)		
Certificate /EMC	CE/FCC Class A			CE/FCC Class A			CE/FCC Class A			CE/FCC Class A			CE/FCC Class A			CE/FCC Class A			CE/FCC Class A			CE/FCC Class A		
OS	Windows 10 Enterprise & IOT Enterprise(64-bit) Ubuntu, SuSe, Redhat Enterprise 1,2 (Kernel 4.14) Wind River VxWorks 7			Windows 10 Enterprise & IOT Enterprise (64 bit) Ubuntu, SuSe, Redhat Enterprise 1,2 (Kernel 4.14) Wind River VxWorks 7			Windows 10 Enterprise & IOT Enterprise (64-bit) Ubuntu, SuSe, Redhat Enterprise 1,2 (Kernel 4.14) Wind River VxWorks 7			Windows 10 Enterprise & IOT Enterprise (64-bit) Ubuntu, SuSe, Redhat Enterprise 1,2 (Kernel 4.14) Wind River VxWorks 7			Windows 10 Enterprise & IOT Enterprise (64-bit) Ubuntu, SuSe, Redhat Enterprise 1,2 (Kernel 4.14) Wind River VxWorks 7			Windows 10 Enterprise & IOT Enterprise (64-bit) Ubuntu, SuSe, Redhat Enterprise 1,2 (Kernel 4.14) Wind River VxWorks 7			Win11, Windows 10 IoT Enterprise (64-bit), Windows Server 2019, Ubuntu, SUSE, Redhat Enterprise, Wind River Linux, Yocto Project (64-bit), Wind River VxWorks 7			Win11, Windows 10 IoT Enterprise (64-bit), Windows Server 2019, Ubuntu, SUSE, Redhat Enterprise, Wind River Linux, Yocto Project (64-bit), Wind River VxWorks 7		
Watchdog timer	Programmable via software 1 to 255 second			Programmable via software 1 to 255 second			Programmable via software 1 to 255 second			Programmable via software 1 to 255 second			Programmable via software 1 to 255 second			Programmable via software 1 to 255 second			Programmable via software 1 to 255 second			Programmable via software 1 to 255 second		

Product Listing

       								
KMDA-6921		KMDA-7610	KMDA-7920	KMDA-7921	KMDA-2630-S	KMDA-2630-T	KMDA-3301	KMDA-3302
Processor								
CPU	Intel® Comet lake 10th Gen Core™ i9/i7/i5/i3/Pentium/Celeron LGA1200 CPU H420E Chipset	Intel® Alder lake-S 12th Gen Core™ i9/i7/i5/i3/Pentium/Celeron LGA1700 CPU, Intel® H610 PCH	Intel® Alder lake-S 12th Gen Core™ i9/i7/i5/i3/Pentium/Celeron LGA1700 CPU, Intel® H610 PCH	Intel® Alder lake-S 12th Gen Core™ i9/i7/i5/i3/Pentium/Celeron LGA1700 CPU, Intel® H610 PCH	Intel® Elkhart lake SoC CPU: Celeron J6412/Celeron N6210	Intel® Elkhart lake SoC CPU: Celeron J6412/Celeron N6210	Intel® Tigerlake U Celeron/Core i3/i5/i7 CPU	Intel® Tiger lake U Soc CPU (core i3-1115G4/i5-1135G7/i7-1165G7, Celeron 6305E),
RAM	2*260-Pin ,DDR4,2933MHz, 64GB Max.	2*262-Pin, DDR5,4800MHz, 64GB max.	2*262-Pin, DDR5,4800MHz, 64GB max.	2*262-Pin, DDR5,4800MHz, 64GB max.	1*DDR4 SO-DIMM , 3200MHz, 32GB max.	1*DDR4 SO-DIMM , 3200MHz, 32GB max.	2*DDR4 SO-DIMM, 3200MHz, 64GB max.	1*DDR4 SO-DIMM, 3200MHz, 32GB max.
Graphics	Intel UHD Graphics, Supports DirectX12, OpenGL 4.5; DP:4096*2304@60Hz, VGA:1900*1200@60Hz, HDMI: 4096*2160@30Hz (2 independent display)	Intel® UHD Graphics, Supports DirectX 12, OpenGL 4.5, OpenCL 3.0 DP:8K@60Hz,HDMI:4096*2160@60Hz, VGA:1920*1200@60Hz, 3 independent display	Intel® UHD Graphics, Supports DirectX 12, OpenGL 4.5, OpenCL 3.0 DP:8K@60Hz,HDMI:4096*2160@60Hz, VGA:1920*1200@60Hz, 3 independent display	Intel® UHD Graphics, Supports DirectX 12, OpenGL 4.5, OpenCL 3.0 DP:8K@60Hz,HDMI:4096*2160@60Hz, VGA:1920*1200@60Hz, 3 independent display	Intel Gen11 UHD Graphics, HDMI2.0: 4096*2304@60Hz VGA: 1920*1200@60Hz	Intel Gen11 UHD Graphics, HDMI2.0: 4096*2304@60Hz VGA: 1920*1200@60Hz	Intel UHD Graphics or iRIS® Xe Graphics , Supports Intel DL technology, DirectX12.1, OpenGL 4.6 and OpenCL 2.0 HDMI 2.0 : 4096x2304@60Hz, DP 1.4 : 7680x4320@60Hz	Intel UHD Graphics / Iris® Xe Graphics , DirectX12.1, OpenGL 4.6 and OpenCL 3.0 HDMI 2.0 : 4096x2304@60Hz
I/O Port								
LAN	1*Intel I226V, PCIe X1, 10M-2.5G, WOL; 1*Intel I219 LM, 10M-1000M, WOL	1*Intel I226V, 10-1000M, WOL; 1*Intel I219 LM, 10-1000M, WOL	1*Intel I226V, 10-1000M, WOL; 1*Intel I219 LM, 10-1000M, WOL	1*Intel I226V, 10-1000M, WOL; 1*Intel I219 LM, 10-1000M, WOL	2*Intel I226V, 10M-2.5G, WOL; 2*Realtek 8111H, 10-1000M	2*Intel I226V, 10M-2.5G, WOL;	3*Intel I225V, 10M-2.5G, iAMT 13.0	2*Intel I210AT, 10M-1000M, WOL
USB	4* USB3.2 Gen1, 2*USB2.0, 2*USB2.0(Build-in)	2* USB3.2(10G),2*USB3.2(5G),2*USB2.0	2* USB3.2(10G),2*USB3.2(5G),2*USB2.0	2* USB3.2(10G),2*USB3.2(5G),2*USB2.0	2*USB3.2 Gen2, 6*USB2.0, 1*USB2.0(Build-in)	2*USB3.2 Gen2, 2*USB2.0, 1*USB2.0(Build-in)	2* USB3.2 Gen2, 2*USB2.0, 2*USB2.0(internal)	2* USB3.2 Gen2, 2*USB2.0
Display	1*DP+1*HDMI+1*VGA	1*DP+1*HDMI+1*VGA	1*DP+1*HDMI+1*VGA	1*DP+1*HDMI+1*VGA	1*HDMI+1*VGA	1*HDMI+1*VGA	1*DP+1*HDMI	1*HDMI
Audio	1*Line out+1*Mic, Realtek ALC 897	1*Line out+1*Mic, Realtek ALC 897	1*Line out+1*Mic, Realtek ALC 897	1*Line out+1*Mic, Realtek ALC 897	Audio out+1*Line in+1*Mic,Realtek ALC897	1*Line out,Realtek ALC897	1*Line out+1*Mic,Realtek ALC662VD	/
COM/ Others	2*RS232/422/485, 2*RS232; 1*LPT, 1*PS/2	2*RS232/422/485, 2*RS232; 1*SM Bus	2*RS232/422/485, 2*RS232; 1*SM Bus	2*RS232/422/485, 2*RS232; 1*SM Bus	2*RS232/422/485, 2*RS232	2*RS232/422/485, 2*RS232	2*RS232/422/485; 1*MIO	1*RS232/422/485; 1*RS232
DIO	8-bit DIO,TTL 16-bit DIO(2*10 pin)	16 bit iso. DIO,8bit DI(,PNP/NPN),8bit DO 16 bit iso. DIO(2*10pin)	16 bit iso. DIO,8bit DI(PNP/NPN),8bit DO 16 bit iso. DIO(2*10pin)	16 bit iso. DIO,8bit DI(PNP/NPN),8bit DO 16 bit iso. DIO(2*10pin)	8 bit DIO(DB9)	8 bit DIO(DB9)	8-bit DIO(2*5pin)	8bit DIO(2*5pin)
Storage								
Storage	2*2.5" SATA3, 6Gbps; 1*mSATA(SATA3.0 & USB2.0)	2*2.5" SATA3, 15mm; 1*mSATA(SATA3)	2*2.5" SATA3, 15mm; 1*mSATA(SATA3)	2*2.5" SATA3, 15mm; 1*mSATA(SATA3)	1*2.5" SATA3; 1*mSATA, AHCI	1*2.5" SATA3; 1*mSATA, AHCI	1*2.5" SATA3, 6Gbps; 1*mSATA, support AHCI; 1*M.2 22080 M-Key NVME(PCIe4.0 X2)	2*mSATA;
Expansion								
Expansion Port	1*PCIe3.0 X16(X16)+ 1*PCIe3.0 X4(X2), 2*32-bit PCI; 1*Mini PCIe(PCIeX1/USB2.0+SIM), 4G LTE/PCIe;	1*Mini PCIe(PCIeX1/USB+SIM), 4G LTE/PCIe;	1*PCIe5.0X16(X16)+1*PCIe3.0X16(X4); or 1*PCIe5.0X16(X16)+1*32bit PCI; 1*Mini PCIe(PCIeX1/USB+SIM),4G LTE	1*PCIe5.0X16(X16)+1*PCIe3.0X4(X2)+ 2*32bit PCI; 1*Mini PCIe(PCIeX1/USB+SIM),4G LTE	1*M.2 B-key 3052(PCIe X1/USB2.0+SIM), 5G NR/4G LTE; 1*Full size Mini PCIe(PCIe X1)	1*M.2 B-key 3052(PCIe X1/USB2.0+SIM), 5G NR/4G LTE; 1*JHCTECH Express-01 80pin:2*PCIeX1, 4*USB2.0, Front-Audio; 1*PS/2, Front-Panel, 1*Sm bus, 1*eSPI	1*Mini PCIe(PCIe X1+USB2.0), support Wifi/BT; 1*M.2 3052 B-Key(PCIe X1+USB2.0), with SIM slot, support 4G LTE/5G NR; 1*M.2 22080 M-Key , (PCIe4.0 X2), support high speed signal function card	1*Mini PCIe(PCIe X1/USB2.0), CAN2.0; 1*M.2 3042/3052 B-Key (PCIeX1/USB2.0+SIM),4G LTE/5G NR; 1*M.2 2230 E-Key (PCIeX1+USB2.0), Wifi/BT
Power Supply								
Input voltage	DC IN 9-36V ,with protection of short circuit, over voltage, over current	DC IN 9-36V 3-pin, with protection of short circuit, over voltage, over current;	DC IN 9-36V 3-pin, with protection of short circuit, over voltage, over current;	DC IN 9-36V 3-pin, with protection of short circuit, over voltage, over current;	DC 12V or DC 9-36V, short circuit protection, OVP&OCP	DC 12V or DC 9-36V, short circuit protection, OVP&OCP	DC 9-36V, 1*3-pin,with short circuit, over voltage & over current protection	DC IN 9-36V,OVP&OCP;
TDP	60W(i7-10700K /4G DDR4/256G SSD)	TDP: TBD	TDP: TBD	TDP: TBD				TBP
Mechanical								
Structure	Aluminum Chassis, SGCC frame	Aluminum Chassis, SGCC frame	Aluminum Chassis, SGCC frame	Aluminum Chassis, SGCC frame	Aluminum Chassis, SGCC frame	Aluminum Chassis, SGCC frame	Aluminum chassis, SGCC	SGCC frame
Color	Silver white + Aquamarine	Silver white+Aquamarine	Silver white+Aquamarine	Silver white+Aquamarine	Silver white+Aquamarine	Silver white+Aquamarine	Blue+white	Silver gray
Installation	desktop mounting	desktop mounting	desktop mounting	desktop mounting	desktop mounting	desktop mounting	desktop mounting/optional Din-Rail mounting	desktop mounting; (Opt.)-Din-Rail
Dimension	230*273*204mm	256.68*267.3*99mm	256.68*312.7*149.9mm	256.68*312.7*210.9mm	162*111.8*65mm	162*111.8*65mm	250*154*61.9mm	172*116*54mm
Net Weight	6.84KG	TBD	TBD	TBD	1.32KG	1.30KG	2.55KG	0.89KG
Environmental								
Operating Temp	-20℃~-60℃,SSD,with air flow -10℃~-55℃,HDD,with air flow	-20℃~-60℃,SSD, with air flow; -10℃~-55℃,HDD, with air flow;	-20℃~-60℃,SSD, with air flow; -10℃~-55℃,HDD, with air flow;	-20℃~-60℃,SSD, with air flow; -10℃~-55℃,HDD, with air flow;	-20℃~-60℃, SSD, with air flow	-20℃~-60℃, SSD, with air flow	-20℃~-65℃, SSD, with air flow	-20℃~-60℃, SSD, with air flow
Storage Temp	-40℃~85℃	-40℃~85℃	-40℃~85℃	-40℃~85℃	-40℃~85℃	-40℃~85℃	-40℃~85℃	-40℃~85℃
Storage Humidity	10~90%@40℃, No- condensation	10~95%@40℃, No-condensation	10~95%@40℃, No-condensation	10~95%@40℃, No-condensation	10~95%@40℃, No-condensation	10~95%@40℃, No-condensation	10~90%@40℃, non-condensing	10~90%@40℃, No- condensation
Vibration	5 grms/5~500Hz/random/operation (SSD) 1 grms/5~500Hz/random/operation (HDD)	5 grms/5~500Hz/random/operation(SSD); 1 grms/5~500Hz/random/operation(HDD)	5 grms/5~500Hz/random/operation(SSD); 1 grms/5~500Hz/random/operation(HDD)	5 grms/5~500Hz/random/operation(SSD); 1 grms/5~500Hz/random/operation(HDD)	5 grms/5~500Hz/random/operation(SSD); 1 grms/5~500Hz/random/operation(HDD)	5 grms/5~500Hz/random/operation(SSD); 1 grms/5~500Hz/random/operation(HDD)	5 grms/5~500Hz/random/operation (SSD) 1 grms/5~500Hz/random/operation (HDD)	5 grms/5~500Hz/random/operation (SSD) 1 grms/5~500Hz/random/operation (HDD)
Shock	50g peak acceleration(duration 11ms,SSD) 20g peak acceleration(duration 11ms,HDD)	50g peak acceleration(duration 11ms,SSD); 20g peak acceleration(duration 11ms,HDD)	50g peak acceleration(duration 11ms,SSD); 20g peak acceleration(duration 11ms,HDD)	50g peak acceleration(duration 11ms,SSD); 20g peak acceleration(duration 11ms,HDD)	50g peak acceleration(duration 11ms,SSD); 20g peak acceleration(duration 11ms,HDD)	50g peak acceleration(duration 11ms,SSD); 20g peak acceleration(duration 11ms,HDD)	50g peak acceleration(duration 11ms,SSD) 20g peak acceleration(duration 11ms,HDD)	50g peak acceleration(duration 11ms,SSD) 20g peak acceleration(duration 11ms,HDD)
Certificate /EMC	CE/FCC Class A	CE/FCC Class A	CE/FCC Class A	CE/FCC Class A	CE/FCC Class A	CE/FCC Class A	CE/FCC Class A	CE/FCC Class A
OS	Win11, Windows 10 IoT Enterprise (64-bit), Windows Server 2019, Ubuntu, SUSE, Redhat Enterprise, Wind River Linux, Yocto Project (64-bit), Wind River VxWorks 7	Windows 11, Windows 10 IoT Enterprise 2021 LTSC, Ubuntu, SuSe, Red Hat Enterprise, Wind River Linux, Wind River VxWorks 7	Windows 11, Windows 10 IoT Enterprise 2021 LTSC, Ubuntu, SuSe, Red Hat Enterprise, Wind River Linux, Wind River VxWorks 7	Windows 11, Windows 10 IoT Enterprise 2021 LTSC, Ubuntu, SuSe, Red Hat Enterprise, Wind River Linux, Wind River VxWorks 7	Windows 10 64 bit, SUSE, Ubuntu, Wind River, Linux	Windows 10 64 bit, SUSE, Ubuntu, Wind River, Linux	Windows 10 64 bit, SUSE, Ubuntu, Wind River, Linux	Windows 11/10*IoT enterprise, Android, SUSE, Ubuntu, Wind River, RedHat*Enterprise, Wind River VxWorks*7, Yocto
Watchdog timer	programmable via software 1 to 255 second	programmable via software 1 to 255 second	programmable via software 1 to 255 second	programmable via software 1 to 255 second	programmable via software 1 to 255 second	programmable via software 1 to 255 second	programmable via software 1 to 255 second	programmable via software 1 to 255 second

Product Listing

	KMDA-5611-S001	KMDA-5611-S002	KMDA-6611-S001	KMDA-6611-S002	KMDA-7611-S	KMDA-7611-T	SCC-3116	ECC-U5000
Processor								
CPU	Intel® Coffee lake 9th/8th-Gen Core™ i9/i7/i5/i3/Pentium/Celeron LGA1151 CPU, up to 65W,Intel® H310 PCH	Intel® Coffee lake 9th/8th-Gen Core™ i9/i7/i5/i3/Pentium/Celeron LGA1151 CPU, up to 65W,Intel® H310 PCH	Intel® Comet lake 10th Gen Core™ i9/i7/i5/i3/Pentium/Celeron LGA1200 CPU, up to 65W,Intel® H420E PCH	Intel® Comet lake 10th Gen Core™ i9/i7/i5/i3/Pentium/Celeron LGA1200 CPU, up to 65W,Intel® H420E PCH	Intel® Alder lake-S/Raptor Lake-S 12/13th Gen Core™ i9/i7/i5/i3/Pentium/Celeron LGA1700 CPU; H610 PCH	Intel® Alder lake-S/Raptor Lake-S 12/13th Gen Core™ i9/i7/i5/i3/Pentium/Celeron LGA1700 CPU; H610 PCH	Intel® Baytrail-D Celeron J1900 , frequency 2.0~2.42GHz, quad-core with 4 threads, 2M cache, 22nm, TDP 10W	Intel® Elkhart lake SoC CPU: Celeron J6412 2.0-2.6GHz
RAM	2*DDR4 SODIMM, 2666MHz, 64GB max.	2*DDR4 SODIMM, 2666MHz, 64GB max.	2*DDR4 SODIMM, 2933MHz, 64GB max.	2*DDR4 SODIMM, 2933MHz, 64GB max.	2*DDR5 SODIMM, 4800MHz, 64GB max.	2*DDR5 SODIMM, 4800MHz, 64GB max.	1*DDR3L, 1333MHz SODIMM, 8GB max.	1*DDR4, 3200MHz SODIMM, 32GB max.
Graphics	Intel® UHD Graphics, Supports DirectX 11.1, OpenGL 5.0, OpenCL 2.1; HDMI : 4096x2160@24Hz, VGA: 1920*1200@60Hz	Intel® UHD Graphics, Supports DirectX 11.1, OpenGL 5.0, OpenCL 2.1; HDMI : 4096x2160@24Hz, VGA: 1920*1200@60Hz	Intel® UHD Graphics, Supports DirectX 12, OpenGL 4.5; HDMI : 4096x2160@30Hz, VGA: 1920*1200@60Hz	Intel® UHD Graphics, Supports DirectX 12, OpenGL 4.5; HDMI : 4096x2160@30Hz, VGA: 1920*1200@60Hz	Intel® UHD Graphics, Supports DirectX 12, OpenGL 4.5, OpenCL 3.0; HDMI : 4096x2160@60Hz,	Intel® UHD Graphics, Supports DirectX 12, OpenGL 4.5, OpenCL 3.0; HDMI : 4096x2160@60Hz,	Intel HD Graphics,OpenGL 3.2, DirectX 11, OpenCL 1.2, MPGE2/H.264, Dual independent display, VGA : 1920*1200@60Hz, HDMI:1920*1080@60Hz	Intel UHD Graphics / Iris® Xe Graphics, Intel DL boost, DirectX12.1, OpenGL 4.6 and OpenCL 3.0; HDMI:4096*2304@60Hz
I/O Port								
LAN	1*Intel I210AT+1*I219LM, 10M-1000M, WOL; 4*Intel I210AT POE+, 10M-1000M, WOL	1*Intel I210AT+1*I219LM, 10M-1000M, WOL;	1*Intel I210AT+1*I219LM, 10M-1000M, WOL; 4*Intel I210AT POE+, 10M-1000M, WOL	1*Intel I210AT+1*I219LM, 10M-1000M, WOL;	3*Intel I210AT, 10M-1000M, WOL; 1*Intel I219LM, 10M-1000M, WOL	1*Intel I210AT, 10M-1000M, WOL; 1*Intel I219LM, 10M-1000M, WOL	3*Intel I210AT, 10-1000M	3*RTL811H-VB, 10-1000M
USB	2* USB3.1+ 2*USB2.0	2* USB3.1+ 2*USB2.0+8*USB3.0	2* USB3.2+ 2*USB2.0	2* USB3.1+ 2*USB2.0+8*USB3.0	2* USB3.2 Gen2, 2* USB3.2 Gen1	2* USB3.2 Gen2, 2* USB3.2 Gen1	1* USB3.0; 6*USB2.0	2* USB3.1; 2*USB2.0
Display	1*HDMI+1*VGA	1*HDMI+1*VGA	1*HDMI+1*VGA	1*HDMI+1*VGA	1*HDMI	1*HDMI	1*HDMI+1*VGA	1*HDMI
Audio	/	/	/	/	1*Line out+1*Mic,Realtek ALC897	/	1*Line out+1*Mic,Realtek ALC662VD	/
COM/ Others	1*RS232/485; 1*RS232	1*RS232/485; 1*RS232	1*RS232/485; 1*RS232	1*RS232/485; 1*RS232	2*RS232/422/485; 4*RS232	2*RS232/422/485	4*RS232/422/485, 1*RS232; 1*PS/2	2*RS232/485, 6*RS485; 2*CAN
DIO	32 bit iso. DIO(2*18pin)	32 bit iso. DIO(2*18pin)	32 bit iso. DIO(2*18pin)	32 bit iso. DIO(2*18pin)	8 bit iso. DIO(2*5pin)	8 bit iso. DIO(2*5pin)	8bit DIO (DB9) ,TTL	8*DI+6*DO
Storage								
Storage	1*2.5"SATA3.0, 6Gbps; 1*mSATA, 6Gbps	1*2.5"SATA3.0, 6Gbps; 1*mSATA, 6Gbps	1*2.5"SATA3.0, 6Gbps; 1*mSATA, 6Gbps	1*2.5"SATA3.0, 6Gbps; 1*mSATA, 6Gbps	1*2.5"SATA3.0, 6Gbps; 1*mSATA, 6Gbps	1*mSATA, 6Gbps	1*2.5" SATA2,HDD/SSD; 1*mSATA, AHCI	1*mSATA, 6Gbps
Expansion								
Expansion Port	1*Mini PCIe(+SIM), 4G/WIFI/PCIe;	1*Mini PCIe(+SIM), 4G/WIFI/PCIe;	1*Mini PCIe(+SIM), 4G/WIFI/PCIe;	1*Mini PCIe(+SIM), 4G/WIFI/PCIe;	2*Mini PCIe(PCIe X1/USB2.0), PCIe module; 1*M.2 3052/3042 B-Key (PCIe X1/USB2.0+SIM),5G NR;	2*Mini PCIe(PCIe X1/USB2.0), PCIe module; 1*M.2 3052/3042 B-Key (PCIe X1/USB2.0+SIM),5G NR;	1*Mini PCIe(+SIM),4G LTE/Wifi/BT;	1*Mini PCIe(+SIM),4G LTE/Wifi/BT; 1*Mini PCIe(PCIeX1+USB2.0)
Power Supply								
Input voltage	DC 9-36V, with SCP,OVP,OCp;	DC 9-36V, with SCP,OVP,OCp;	DC 9-36V, with SCP,OVP,OCp;	DC 9-36V, with SCP,OVP,OCp;	DC 9-36V, with SCP,OVP,OCp;	DC 9-36V, with SCP,OVP,OCp;	DC IN 9-36V,OVP&OCp;	DC IN 12V/9-36V,OVP&OCp;
TDP	TBD	TBD	TBD	TBD	TBD:105.84W (Intel I3-12100/128GB SSD/32GB RAM)	TBD:105.84W (Intel I3-12100/128GB SSD/32GB RAM)	14.4W(2.5" HDD)	18.35W(Celeron J6412/2.00GHz, 8G DDR4, 128G mSATA)
Mechanical								
Structure	Aluminum-magnesium alloy, SGCC frame	Aluminum-magnesium alloy, SGCC frame	Aluminum-magnesium alloy, SGCC frame	Aluminum-magnesium alloy, SGCC frame	Aluminum Chassis, SGCC frame	Aluminum Chassis, SGCC frame	Aluminum Chassis, SGCC frame	Aluminum Chassis, SGCC frame
Color	Silver gray	Silver gray	Silver gray	Silver gray	Silver gray	Silver gray	Silver gray	Silver gray
Installation	Wall/Desktop/Din-Rail mounting	Wall/Desktop/Din-Rail mounting	Wall/Desktop/Din-Rail mounting	Wall/Desktop/Din-Rail mounting	desktop/Wall/Din-Rail mounting	desktop/Wall/Din-Rail mounting	desktop mounting	desktop mounting
Dimension	225*154*75.6mm	225*154*75.6mm	225*154*75.6mm	225*154*75.6mm	238*169*75.6mm	238*169*61.8mm	268*160*57.6mm	222*140*45mm
Net Weight	TBD	TBD	TBD	TBD	2.55KG	2.32KG	2.15KG	1.32KG
Environmental								
Operating Temp	-20°C~60°C,SSD, with air flow; -10°C~55°C,HDD, with air flow;	-20°C~60°C,SSD, with air flow; -10°C~55°C,HDD, with air flow;	-20°C~60°C,SSD, with air flow; -10°C~55°C,HDD, with air flow;	-20°C~60°C,SSD, with air flow; -10°C~55°C,HDD, with air flow;	-20°C~60°C,SSD, with air flow; -10°C~55°C,HDD, with air flow;	-20°C~60°C,SSD, with air flow; -10°C~55°C,HDD, with air flow;	-20°C~65°C,SSD,with air flow -10°C~55°C,HDD,with air flow	-20°C~60°C,SSD, with air flow
Storage Temp	-40°C~85°C	-40°C~85°C	-40°C~85°C	-40°C~85°C	-40°C~85°C	-40°C~85°C	-40°C~85°C	-40°C~85°C
Storage Humidity	10~95%@40°C, No-condensation	10~95%@40°C, No-condensation	10~95%@40°C, No-condensation	10~95%@40°C, No-condensation	10~95%@40°C, No-condensation	10~95%@40°C, No-condensation	10~90%@40°C, No- condensation	10~90%@40°C, No- condensation
Vibration	5 grms/5~500Hz/random/operation(SSD); 1 grms/5~500Hz/random/operation(HDD)	5 grms/5~500Hz/random/operation(SSD); 1 grms/5~500Hz/random/operation(HDD)	5 grms/5~500Hz/random/operation(SSD); 1 grms/5~500Hz/random/operation(HDD)	5 grms/5~500Hz/random/operation(SSD); 1 grms/5~500Hz/random/operation(HDD)	5 grms/5~500Hz/random/operation(SSD); 1 grms/5~500Hz/random/operation(HDD)	5 grms/5~500Hz/random/operation(SSD); 1 grms/5~500Hz/random/operation(HDD)	5 grms/5~500Hz/random/operation (SSD) 1 grms/5~500Hz/random/operation (HDD)	5 grms/5~500Hz/random/operation (SSD) 1 grms/5~500Hz/random/operation (HDD)
Shock	50g peak acceleration(duration 11ms,SSD); 20gpeak acceleration(duration 11ms,HDD)	50g peak acceleration(duration 11ms,SSD); 20gpeak acceleration(duration 11ms,HDD)	50g peak acceleration(duration 11ms,SSD); 20gpeak acceleration(duration 11ms,HDD)	50g peak acceleration(duration 11ms,SSD); 20gpeak acceleration(duration 11ms,HDD)	50g peak acceleration(duration 11ms,SSD); 20gpeak acceleration(duration 11ms,HDD)	50g peak acceleration(duration 11ms,SSD); 20gpeak acceleration(duration 11ms,HDD)	50g peak acceleration(duration 11ms,SSD) 20g peak acceleration(duration 11ms,HDD)	50g peak acceleration(duration 11ms,SSD) 20g peak acceleration(duration 11ms,HDD)
Certificate /EMC	CE/FCC Class A	CE/FCC Class A	CE/FCC Class A	CE/FCC Class A	CE/FCC Class A	CE/FCC Class A	CE/FCC Class A	CE/FCC Class A
OS	Windows 10 Enterprise(/IOT,64bit) (CFL-R) Ubuntu. SuSe. Redhat Enterprise 1,2 (Kernel 4.14) (CFL-R) Wind River VxWorks 7 (CFL-R)	Windows 10 Enterprise(/IOT,64bit) (CFL-R) Ubuntu. SuSe. Redhat Enterprise 1,2 (Kernel 4.14) (CFL-R) Wind River VxWorks 7 (CFL-R)	Windows 11/10 IoT Enterprise (64-bit), Windows Server 2019, Ubuntu, SUSE, Redhat Enterprise, Wind River Linux, Yocto Project (64-bit), Wind River VxWorks 7	Windows11/10 IoT Enterprise (64-bit), Windows Server 2019, Ubuntu, SUSE, Redhat Enterprise, Wind River Linux, Yocto Project (64-bit), Wind River VxWorks 7	Windows 11/10 IoT Enterprise 2021 LTSC, Ubuntu, SuSe, Red Hat Enterprise, Wind River Linux, Wind River VxWorks 7	Windows 11/10 IoT Enterprise 2021 LTSC, Ubuntu, SuSe, Red Hat Enterprise, Wind River Linux, Wind River VxWorks 7	Windows 7, Windows 8.1, Windows 10, Linux Fedora Ubuntu	Windows 10,Linux
Watchdog timer	programmable via software 1 to 255 second	programmable via software 1 to 255 second	programmable via software 1 to 255 second	programmable via software 1 to 255 second	programmable via software 1 to 255 second	programmable via software 1 to 255 second	programmable via software 1 to 255 second	programmable via software 1 to 255 second

KMDA-2602

Intel Celeron J1900 CPU, 4*LAN, 7*USB, 6*COM, Dual display,DC-IN 9~36V,LED Temperature control display

Key Specification

- Compact Aluminum Chassis, fanless heat dissipation design
- Intel Baytrail Celeron J1900 2.0-2.42G CPU
- 1*DDR3L 1333MHz SODIMM RAM, 8GB max.
- 4*Intel I211-AT PCIe Gig LAN
- 1*HDMI & 1*VGADual display, Audio Line out
- 1*USB3.0, 6*USB2.0,6*COM, 8-bit DIO
- 1*Mini PCIe(PCle+USB)
- 1*2.5" SATA2 bay,1*Mini PCIe(SATA+USB)
- DC 9~36V wide voltage power supply



Product Overview

KMDA-2602 is a compact box PC, equipped with low-power processor, HDMI and VGA dual display,2*Mini PCIe internal expansion,1*2.5" SATA storage.DC 9~36V wide voltage power supply, Real-time operating temperature LED simulation display, It is economical and applicable with high reliability, which is suitable for equipment automation and IoT signal acquisition, etc.

Product Parameters

Processor

CPU	Intel Baytrail-D Celeron J1900 , frequency 2.0~2.42GHz, 4C4T, 2M cache, 22nm, TDP 10W
RAM	1*DDR3L,1333MHz,SODIMM, 8GB max.
Graphics	Intel HD Graphics, Support dual independent display VGA: 1920*1200@60Hz, HDMI: 1920*1080@60Hz, support OpenGL 3.2, DirectX 11, OpenCL 1.2, MPGE2/H.264

I/O Port

LAN	4*Intel I211AT PCIe Gigabit Ethernet, 10-1000M
USB	1* USB3.0, 5*USB2.0 , 1*USB2.0 (Build-in)
Display	1*HDMI+ 1*VGA
Audio	1*Line out,Realtek ALC662VD
COM/Others	2*RS232/422/485, 2*RS232(rear panel), 2*RS232/485(front panel),1*2pin terminal, remote switch signal, USB(mouse/keyboard)
DIO	8-bit TTL, programmable input & output

Storage

Storage	1*2.5" HDD SATA2 bay, 3.0 Gbps, 1*mSATA Full-height card, support AHCI
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Others

Indicator light	1*power indicator, 1*hard disk indicator, 3*CPU temperature indicator (Red is high temperature, Yellow is normal temperature, Green is low temperature)
Control switch	1*power switch (front panel), 1*2pin terminal switch signal (rear panel), 1*AT/ATX selector switch (front panel)
Watchdog timer	Programmable timeout interrupt or system reset, 1 to 255 seconds

Expansion

Expansion Port	1*Mini PCIe, with SIM slot, support 4G LTE. Wifi/BT, 1*Mini PCIe with USB+SATA3 signal, I-Port 1*USB2.0 or Mini PCIe interface(i.e. CAN Bus & Gig. LAN)
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Power Supply

Input voltage	DC IN 9~36V, D-Jack with M8 interface, with protection of short circuit, over voltage, over current
TDP	14.4W(2.5" HDD)

Mechanical

Sturcture	Top/Bottom Aluminum Chassis, SGCC frame
Color	Silver gray
Installation	desktop mouning & VESA 100*100mm
Dimension (W*H*D)	155*111.8*65mm
Net Weight	1.30KG

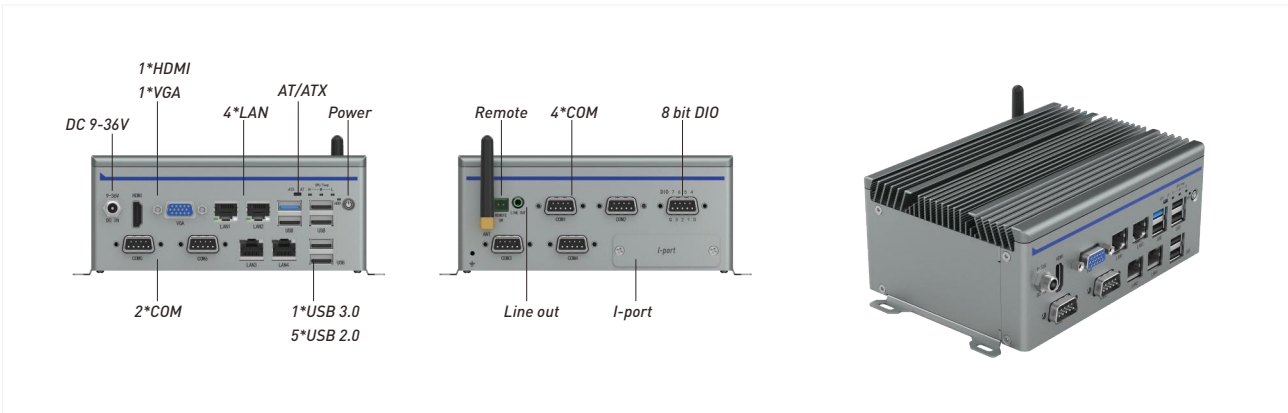
Environmental

Operating Temp	-20°C~65°C – fanless design, wide-temperature SSD -10°C~55°C – fanless design, HDD
Storage Temp	-40°C~85°C
Storage Humidity	10~90%@40°C, No- condensation
Vibration	5 grms/5~500Hz/random/during operation (SSD) 1 grms/5~500Hz/random/during operation (HDD)
Shock	50g peak acceleration(duration 11ms) with SSD, 20g peak acceleration(duration 11ms) with HDD
Certificate/EMC	CE/FCC Class A

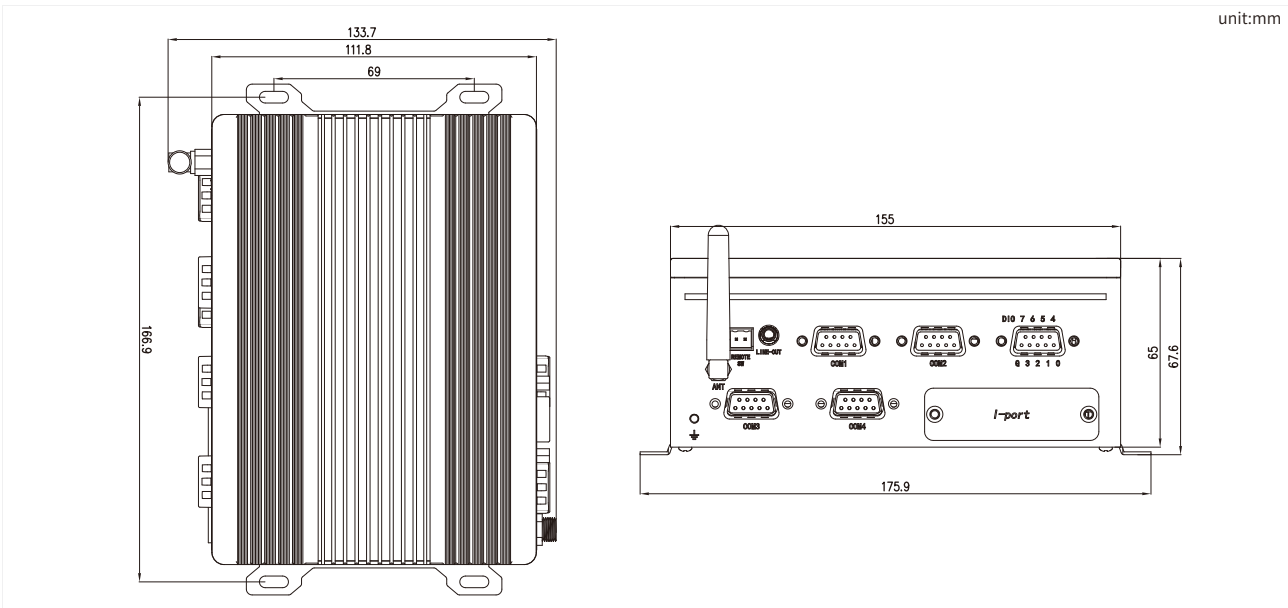
OS

Operating System	Windows 7, Windows 8.1, Windows 10, Linux Fedora,Ubuntu
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I/O View



Dimensions



Ordering Information

Model	Processor	Specifications
KMDA-2602/S002	Intel® J1900 CPU	4*LAN, 1*USB3.0, 6*USB2.0,6*COM, 8-bit DIO, 1*HDMI, 1*VGA, 1*Line out, 2*Mini PCIe(One of them shares slots with mSATA), 1*I-port, 1*2.5" SATA bay, DC 9~36V
KMDA-2602/T001	Intel® J1900 CPU	2*LAN, 1*USB3.0, 4*USB2.0,4*COM, 8-bit DIO, 1*HDMI, 1*VGA, 1*Line out, 2*Mini PCIe(One of them shares slots with mSATA), 1*I-port, 1*2.5" SATA bay, DC 9~36V
PA-60DC12		AC/DC adaptor, DC12V/5A 60W

KMDA-2602/T002

Intel® Celeron J1900 CPU, 2*LAN, 4*USB, 8-bit DIO, 2*COM, Dual independent display,support Din Rail mounting

Key Specification

- Compact Aluminum Chassis, fanless heat dissipation design
- Intel® Baytrail Celeron J1900 2.0-2.42G CPU
- 1*DDR3L 1333MHz SODIMM RAM, 8GB max.
- 2*Intel I211-AT PCIe Gig LAN
- 1*HDMI & 1*VGA Dual display, Audio Line out
- 1*USB3.0, 3*USB2.0,2*COM, 8-bit DIO
- 1*Mini PCIe(PCle+USB)
- 1*2.5" SATA2 bay,1*Mini PCIe(SATA+USB)
- DC 9~36V wide voltage power supply
- Compact and thin structure design, support rail installation, flexible and convenient



Product Overview

KMDA-2602-T002 is a compact box PC with thin and light design, which can support Din Rail mounting, flexible and convenient. 2*Mini PCIe internal expansion, 2.5" SATA storage. DC9-36V wide voltage power supply, real-time working temperature LED simulation display, economical and high reliability, suitable for equipment automation and IoT data acquisition.

Product Parameters

Processor

CPU	Intel Baytrail-D Celeron J1900 , frequency 2.0~2.42GHz, 4C4T, 2M cache, 22nm, TDP 10W
RAM	1*DDR3L,1333MHz,SODIMM, 8GB max.
Graphics	Intel HD Graphics, Support dual independent display VGA: 1920*1200@60Hz, HDMI: 1920*1080@60Hz, support OpenGL 3.2, DirectX 11, OpenC 1.2, MPGE2/H.264

I/O Port

LAN	2*Intel I211AT PCIe Gigabit Ethernet, 10-1000M
USB	1* USB3.0, 3*USB2.0
Display	1*HDMI+1*VGA
Audio	1*Line out,Realtek ALC662VD,1*3W Speaker pin
COM/ Others	2*RS232/422/485(rear panel), 1*2 pin terminal, Remote switch,USB mouse/keyboard
DIO	8-bit TTL, programmable input & output

Storage

Storage	1*2.5" HDD SATA2 bay, 3.0 Gbps, 1*mSATA Full-height card, support AHCI
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Others

Indicator	1*power indicator, 1*hard disk indicator, 3*CPU temperature indicator (Red is high temperature, Yellow is normal temperature, Green is low temperature)
Control switch	1*power switch (front panel), 1*2pin terminal switch signal (rear panel), 1*AT/ATX selector switch (front panel)
Watchdog timer	Programmable timeout interrupt or system reset, 1 to 255 seconds

Expansion

Expansion Port	1*Mini PCIe, with SIM slot, support4G LTE、Wifi/BT, 1*Mini PCIe with USB+SATA3 signal
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Power Supply

Input voltage	DC IN 9~36V, D-Jack. D-Jack with M8 interface, short circuit protection, OVP&OCP
TDP	14.4W(2.5" HDD)

Mechanical

Sturcture	Top/Bottom Aluminum Chassis, SGCC frame
Color	Silver gray
Installation	desktop mouning ,Din-rail mounting (optional)
Dimension (W*H*D)	155*111.6*49mm
Net Weight	1.05KG

Environmental

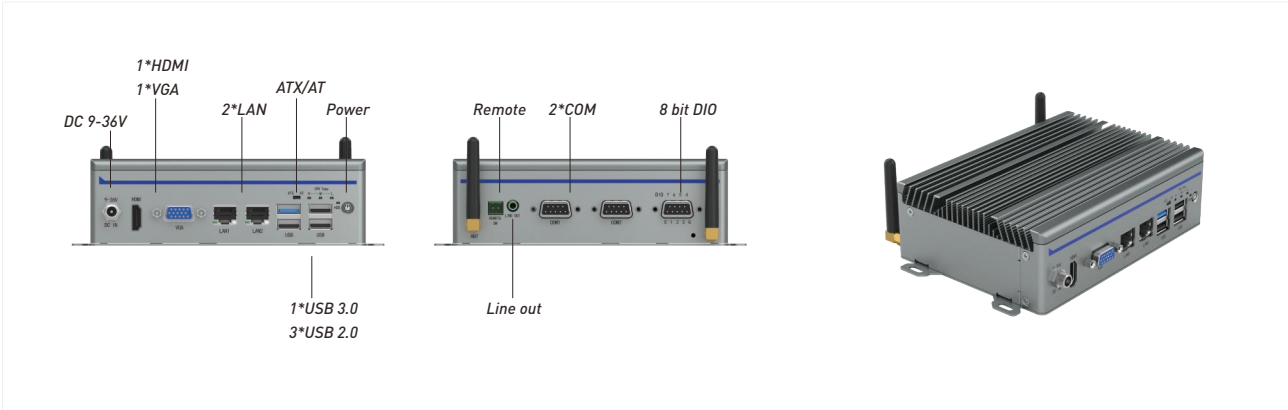
Operating Temp.	-20°C~65°C – fanless design, wide-temperature SSD -10°C~55°C – fanless design, HDD
Storage Temp.	-40°C~85°C
Storage Humidity	10~90%@40°C, No- condensation
Vibration	5 grms/5~500Hz/random/during operation (SSD) 1 grms/5~500Hz/random/during operation (HDD)
Shock	50g peak acceleration(duration 11ms) with SSD, 20g peak acceleration(duration 11ms) with HDD

Certificate/EMC CE/FCC Class A

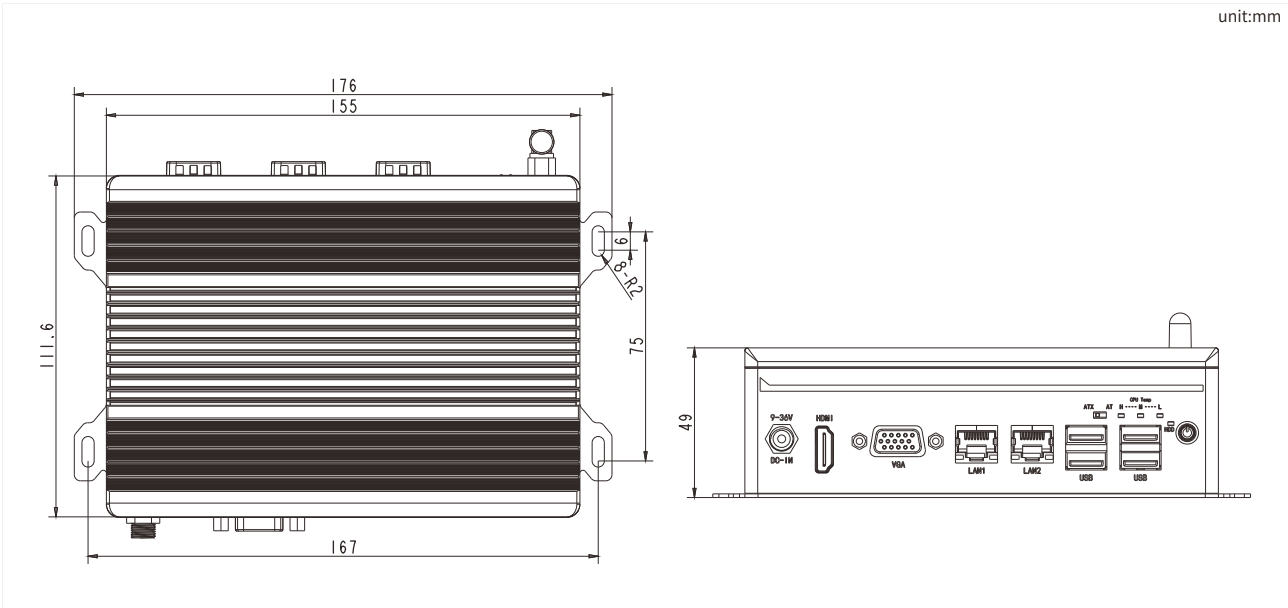
OS

Operating system	Windows 7, Windows 8.1, Windows 10, Linux Fedora,Ubuntu
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I/O View



Dimensions



Ordering Information

Model	Processor	Specifications
KMDA-2602/T002	Intel® J1900 CPU	2*LAN, 1*USB3.0, 3*USB2.0,2*COM, 8-bit DIO,1*HDMI,1*VGA, 1*Line out, 2*Mini PCIe, 1*2.5" SATA bay, DC 9~36V
PA-120DC19		AC/DC adaptor,DC 12V/5A 60W
Din-rail mounting module		KMDA-2602-T002 Din-rail mounting module

KMDA-2620

Intel® Apollolake E3940 CPU, 4*LAN, 7*USB, 8-bit DIO, 6*COM,4K Dual independent display,LED Temperature control display,DC-IN 9-36V

Key Specification

- Compact Aluminum Chassis, fanless heat dissipation design
- Intel® Apollolake Atom E3940 CPU
- 1*DDR3L 1866MHz SODIMM RAM, 8GB max.
- 4*Intel I211-AT PCIe Gig LAN
- 1*HDMI & 1*VGA 4K Dual display, Audio Line out
- 2*USB3.0, 5*USB2.0,6*COM, 8 bit DIO
- 1*M.2 2242 B-key
- 1*2.5" SATA3 bay, 1*mSATA
- Aluminum cover for HDD heat dissipation, increasing hard disk operating temperature (3-5°C)
- DC 9~36V wide voltage power supply



Product Overview

KMDA-2620 is a compact box PC equipped with Intel® Apollolake Atom E3940 CPU, HDMI and DP dual 4K displays, 8-bit DIO, 1 M.2 2242 B-key, 1 mSATA and 1 2.5-inch SATA Disk storage. DC9-36V wide voltage power supply, real-time working temperature LED simulation display, economical and high reliability, suitable for equipment automation and IoT data acquisition...etc

Product Parameters

Processor

CPU	Intel® Apollolake Atom E3940 CPU
RAM	1*DDR3L, 1866MHz, SODIMM, 8GB max.
Graphics	Gen. 9th Intel HD Graphics, DP:4096*2160@60Hz, HDMI:3840*2160@30Hz,support OpenGL 4.3, DirectX 11, OpenCL 2.0, MPGE2, H.265
LAN	4/2*Intel I211AT PCIe Gigabit Ethernet, 10-1000M
USB	2* USB3.0, 4/2*USB2.0 , 1*USB2.0 (Build-in)
Display	1*DP+1*HDMI
Audio	1*Line out,Realtek ALC662VD
COM/ Others	4/2*RS232/422/485, 2*RS232, 1*2 pin terminal, Remote switch,USB mouse/keyboard
DIO	8-bit TTL, programmable input & output

Storage

Storage	1*2.5"HDD SATA3 bay,6.0 Gbps, 1*mSATA Full-height card,support AHCI
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Others

Indicator	1*power indicator, 1*HDD indicator, 3*CPU temperature indicator (Red is high temperature, Yellow is normal temperature, Green is low temperature)
Control switch	1*power switch (front panel), 1*2pin terminal switch signal(rear panel), 1*AT/ATX selector switch (front panel)
Watchdog timer	Programmable timeout interrupt or system reset, 1 to 255 seconds

Expansion

Expansion Port	1*M.2 B-key with PCIe+USB signal & SIM slot, support dual 4G/Wifi/BT,
Power Supply	I-Port 1*USB2.0 or Mini PCIe interface(i.e. CAN Bus & Gig. LAN)
Input voltage	DC IN 9~36V, with protection of short circuit, over voltage, over current
TDP	20.04W(E3940 CPU,4G DDR3L)

Mechanical

Sturcture	Top/Bottom Aluminum Chassis, SGCC frame
Color	Silver gray
Installation	desktop mouning & VESA 100*100mm
Dimension(W*H*D)	155*111.8*65mm
Net Weight	1.30KG

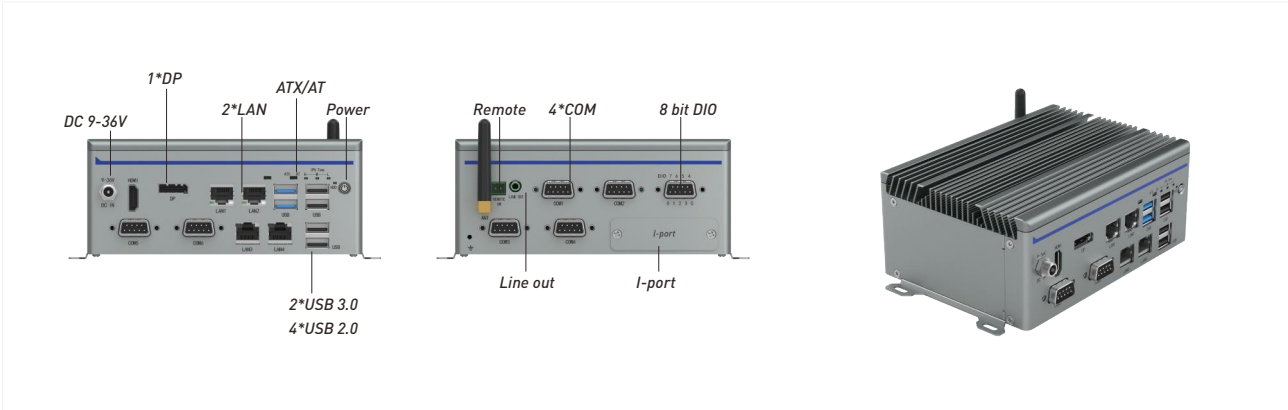
Environmental

Operating Temp	-20°C~70°C – fanless design, wide-temperature SSD -10°C~55°C – fanless design, HDD
Storage Temp	-40°C~85°C
Storage Humidity	10~90%@40°C, No- condensation
Vibration	5 grms/5~500Hz/random/during operation (SSD) 1 grms/5~500Hz/random/during operation (HDD)
Shock	50g peak acceleration(duration 11ms) with SSD, 20g peak acceleration(duration 11ms) with HDD
Certificate/EMC	CE/FCC Class A

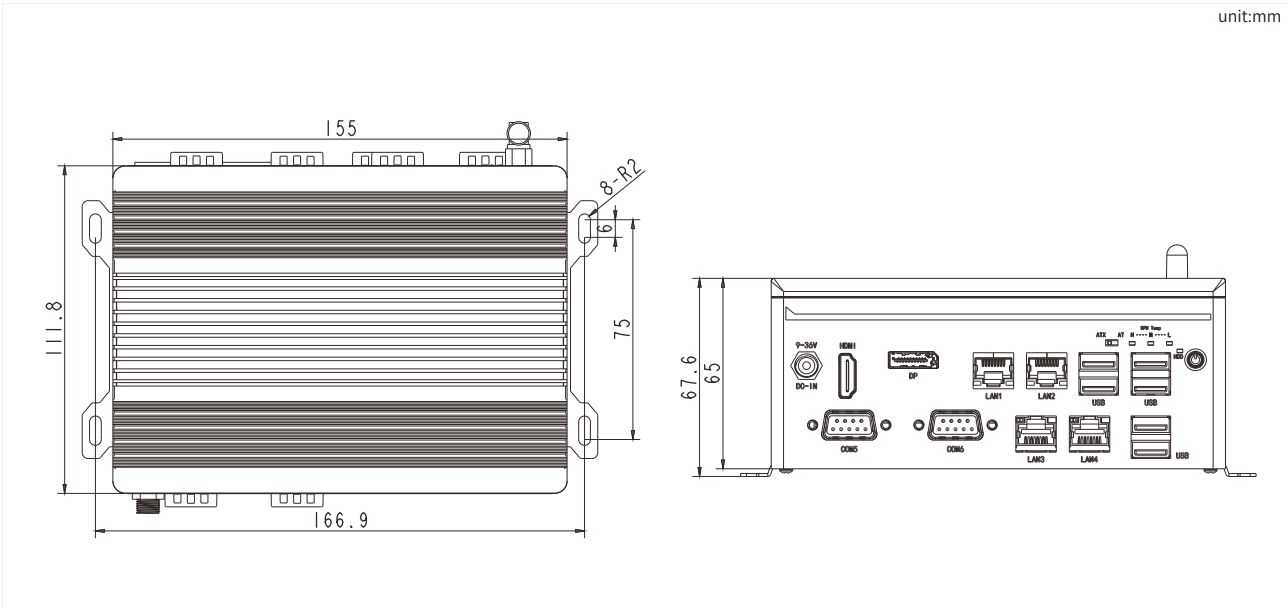
OS

Operating system	Windows 7, Windows 8.1, Windows 10, Linux Fedora,Ubuntu
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I/O View



Dimensions



Ordering Information

Model	Processor	Specifications
KMDA-2620/S001	Intel® Apollolake Atom E3940 CPU	4*LAN, 2*USB3.0, 5*USB2.0, 6*COM, 8-bit DIO, 1*HDMI, 1*DP, 1*Line out, 1*M.2, 1*mSATA, 1*I-port, 1*2.5" SATA bay, DC 9~36V
KMDA-2620/T002	Intel® Apollolake Atom E3940 CPU	2*LAN, 2*USB3.0, 3*USB2.0, 4*COM, 8-bit DIO, 1*HDMI, 1*DP, Line out, 1*M.2, 1*mSATA, 1*Port, 1*2.5" SATA bay, DC 9~36V
PA-120DC19		AC/DC adaptor,DC 12V/5A 60W

KMDA-2701

Intel Baytrail-D Celeron J1900 CPU, 4*LAN, 7*USB, 6*COM, Dual display, DC-IN 9~36V, Audio Line out & Mic, 24-bit DIO

Key Specification

- Aluminum Chassis, fanless heat dissipation design
- Intel Baytrail-D Celeron J1900 2.0-2.42G CPU
- 1*DDR3L 1333MHz SODIMM RAM, 8GB max.
- 4*Intel I211-AT PCIe Gig LAN
- 1*HDMI & 1*VGA Dual display, Audio Line out
- 1*USB3.0, 6*USB2.0,6*COM, 24-bit DIO
- 1*Mini PCIe(PCle+USB),1*Mini PCIe(SATA+USB)
- 1*3.5" SATA2 bay, 1*mSATA
- DC 9~36V wide voltage power supply



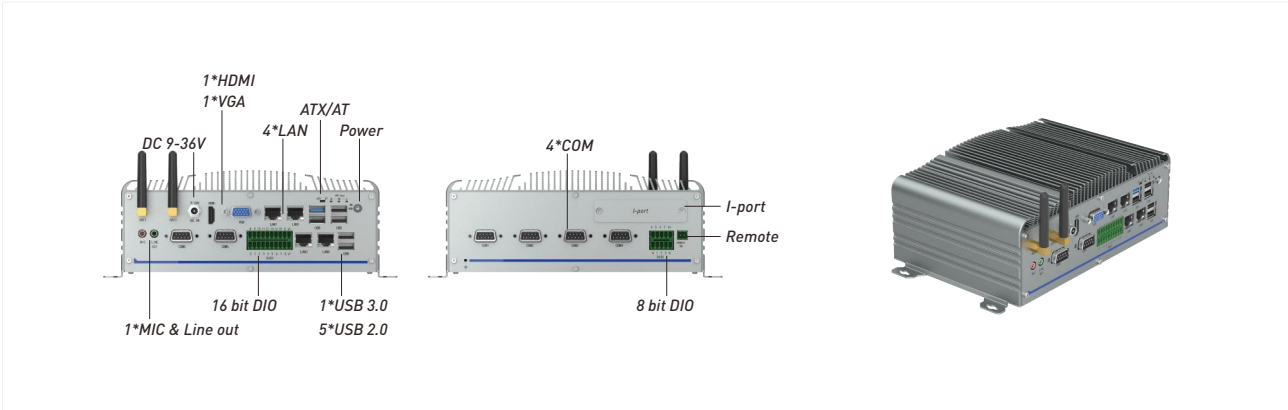
Product Overview

KMDA-2701 is a general-purpose box PC, equipped with Intel Baytrail-D Celeron J1900 2.0-2.42GHz quad-core processor, HDMI and VGA dual display, 24-bit DIO, DC9-36V wide-voltage power supply, real-time operating temperature LED simulation Display, economical and high reliability, suitable for intelligent security and equipment automation.

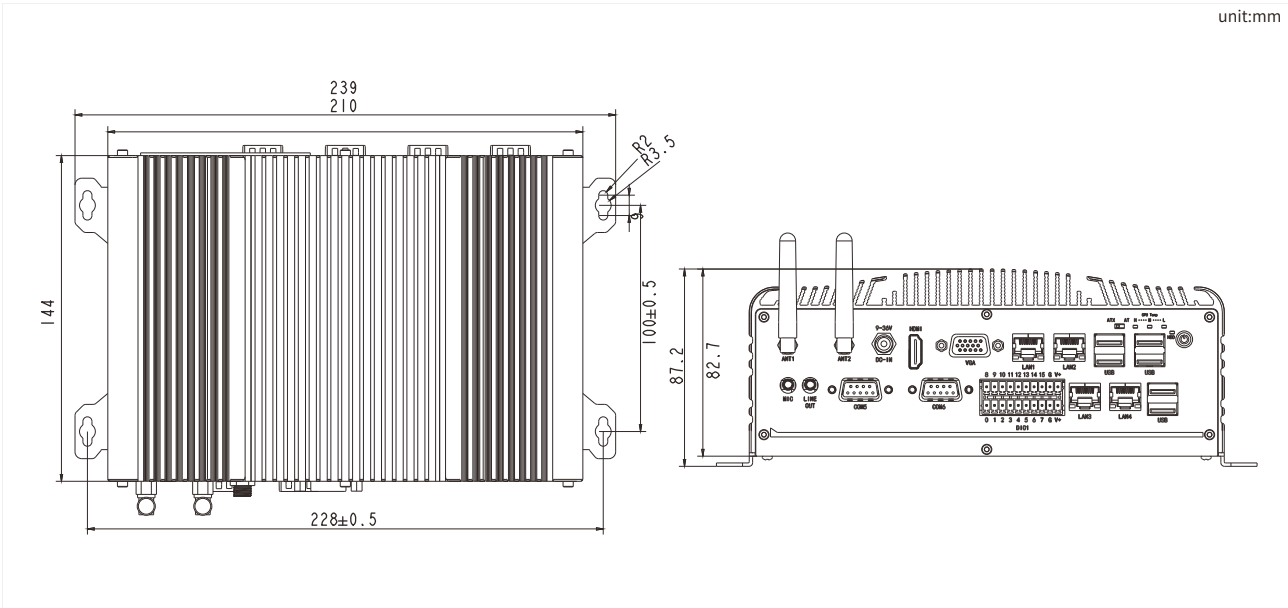
Product Parameters

Processor		Expansion	
CPU	Intel Baytrail-D Celeron J1900 , frequency 2.0~2.42GHz, 4C4T, 2M cache, 22nm, TDP 10W	Expansion Port	1*Mini PCIe, with SIM slot , support 4G LTE、Wifi/BT, I-Port 1*USB2.0 or other Mini PCIe interface(i.e. CAN Bus & Gig. LAN)
RAM	1*DDR3L, 1333MHz, SODIMM, 8GB max.	Power Supply	
Graphics	Intel HD Graphics, Support dual independent display VGA:1920*1200@60Hz, HDMI:1920*1080@60Hz,support OpenGL 3.2, DirectX 11, OpenCL 1.2, MPGE2/H.264	Input voltage	DC IN 9~36V, D-Jack with M8 interface, short circuit protection, over voltage & over current protection
LAN	4*Intel I211AT PCIe Gigabit Ethernet,10-1000M	TDP	19.2W(3.5" HDD)
USB	1* USB3.0, 5*USB2.0 , 1*USB2.0 (Build-in)	Mechanical	
Display	1*VGA+1*HDMI	Sturcture	U-shaped Aluminum Chassis, SGCC frame
Audio	1*Line out+1*Mic, Realtek ALC662VD,build-in 3W Speaker pin	Color	Silver gray
COM/ Others	4*RS232/422/485, 2*RS232, 1*2 pin terminal, Remote switch,USB mouse/keyboard	Installation	desktop mouning
DIO	16-bit TTL, programmable input & output 8-bit TTL, programmable input & output	Dimension(W*H*D)	210*144*82.7mm
Storage		Net Weight	2.60KG
Storage	1*3.5" HDD SATA2 bay, 3.0 Gbps, 1*mSATA Full-height card, support AHCI	Environmental	
Others		Operating Temp	-20°C~70°C – fanless design, wide-temperature SSD -10°C~55°C – fanless design, HDD
Indicator light	1*power indicator, 1*hard disk indicator, 3*CPU temperature indicator (Red is high temperature, Yellow is normal temperature, Green is low temperature)	Storage Temp	-40°C~85°C
Control switch	1*power switch (front panel), 1*2pin terminal switch signal(rear panel), 1*AT/ATX selector switch (front panel)	Storage Humidity	10~90%@40°C, No- condensation
Watchdog timer	Programmable timeout interrupt or system reset, 1 to 255 seconds	Vibration	5 grms/5~500Hz/random/during operation (SSD) 1 grms/5~500Hz/random/during operation (HDD)
		Shock	50g peak acceleration(duration 11ms) with SSD, 20g peak acceleration(duration 11ms) with HDD
		Certificate/EMC	CE/FCC Class A
OS		Operating system	Windows 7, Windows 8.1, Windows 10, Linux Fedora,Ubuntu

I/O View



Dimensions



Ordering Information

Model	Processor	Specifications
KMDA-2701/S002	Intel® J1900 CPU	4*LAN, 1*USB3.0, 6*USB2.0,6*COM, 24-bit DIO, 1*HDMI, 1*VGA, 1*Line out, 1*Mic, 1*Mini PCIe(shares slots with mSATA), 1*mSATA, 1*I-port, 1*3.5" SATA bay, DC 9~36V
KMDA-2701/T001	Intel® J1900 CPU	2*LAN, 1*USB3.0, 4*USB2.0, 4*COM, 8-bit DIO, 1*HDMI, 1*VGA, Line out 2*Mini PCIe(shares slots with mSATA), 1*mSATA, 1*I-port, 1*3.5" SATA bay, DC 9~36V
PA-60DC12		AC/DC adaptor,DC 12V/5A 60W

KMDA-2702

Intel Baytrail-D Celeron J1900 CPU, 3*LAN, 7*USB, 10*COM, Dual display, DC-IN 9~36V, Audio Line out & Mic, 16-bit DIO

Key Specification

- Aluminum Chassis, fanless heat dissipation design
- Intel Baytrail-D Celeron J1900 2.0-2.42G CPU
- 1*DDR3L 1333MHz SODIMM RAM, 8GB max.
- 3*Intel I211-AT PCIe Gig LAN
- 1*HDMI & 1*VGA Dual display, Audio Line out
- 1*USB3.0, 6*USB2.0, 10*COM, 1*PS2,16-bit DIO
- 1*Mini PCIe(PCle+USB), 1*Mini PCIe(SATA+USB)
- 1*2.5" SATA2 bay, 1*mSATA
- DC 9~36V wide voltage power supply



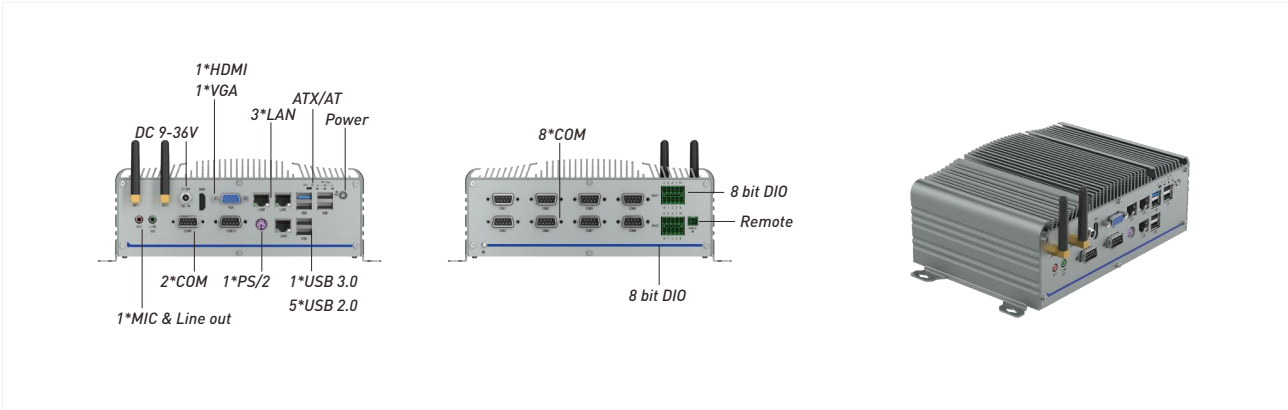
Product Overview

KMDA-2702 is a general-purpose box PC, equipped with Intel Baytrail-D Celeron J1900 2.0-2.42GHz quad-core processor, DC9-36V wide voltage power supply, real-time working temperature LED simulation display, economical, high reliability, suitable for environment Monitoring and new energy industry, etc.

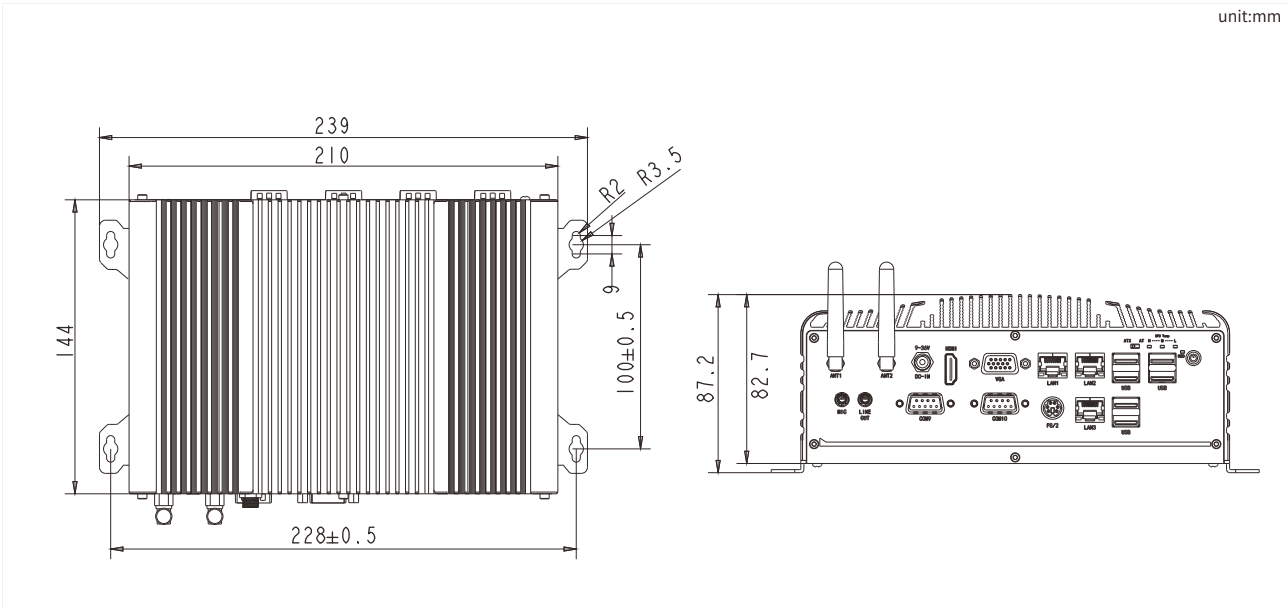
Product Parameters

Processor		Expansion	
CPU	Intel Baytrail-D Celeron J1900 , frequency 2.0~2.42GHz, 4C4T, 2M cache, 22nm, TDP 10W	Expansion Port	1*Mini PCIe, with SIM slot support 4G LTE、Wifi/BT
RAM	1*DDR3L, 1333MHz, SODIMM, 8GB max.	Power Supply	
Graphics	Intel HD Graphics, Support dual independent display VGA:1920*1200@60Hz, HDMI:1920*1080@60Hz, support OpenGL 3.2, DirectX 11, OpenCL 1.2, MPGE2/H.264	Input voltage	DC IN 9~36V, D-Jack. D-Jack with M8 interface, short circuit protection, over voltage & over current protection
LAN	3*Intel I211AT PCIe Gig. Ethernet, 10-1000M	TDP	15.6W(2.5" HDD)
USB	1* USB3.0, 5*USB2.0 , 1*USB2.0 (Build-in)	Mechanic	
Display	1*VGA+1*HDMI	Sturcture	U-shaped Aluminum Chassis, SGCC frame
Audio	1*Line out+1*Mic,Realtek ALC662VD,build-in 3W Speaker pin	Color	Silver gray
COM/ Others	8*RS232/422/485, 2*RS232, 1*2 pin terminal, Remote Switch,PS2 mouse/keyboard	Installation	desktop mouning
DIO	16-bit TTL, programmable input & output (2*5Pin Phoenix terminal*2)	Dimension(W*H*D)	210*144*82.7mm
Storage		Net Weight	2.60KG
Storage	1*2.5" HDD SATA2 bay, 3.0 Gbps, 1*mSATA Full-height card, support AHCI	Environmental	
Others		Operating Temp	-20°C~70°C – fanless design, wide-temperature SSD -10°C~55°C – fanless design, HDD
Indicator light	1*power indicator, 1*hard disk indicator, 3*CPU temperature indicator (Red is high temperature, Yellow is normal temperature, Green is low temperature)	Storage Temp	-40°C~85°C
Control switch	1*power switch (front panel), 1*2pin terminal switch signal (rear panel), 1*AT/ATX selector switch (front panel)	Storage Humidity	10~90%@40°C, No- condensation
Watchdog timer	Programmable timeout interrupt or system reset, 1 to 255 seconds	Vibration	5 grms/5~500Hz/random/during operation (SSD) 1 grms/5~500Hz/random/during operation (HDD)
		Shock	50g peak acceleration(duration 11ms) with SSD, 20g peak acceleration(duration 11ms) with HDD
		Certificate/EMC	CE/FCC Class A
		OS	
		Operating system	Windows 7, Windows 8.1, Windows 10, Linux Fedora,Ubuntu

I/O View



Dimensions



Ordering Information

Model	Processor	Specifications
KMDA-2702/S001	Intel® J1900 CPU	3*LAN, 1*USB3.0, 6*USB2.0, 10*COM, 16-bit DIO, 1*HDMI, 1*VGA, 1*Line out,1*Mic, 2*Mini PCIe(one of them shares slots with mSATA), 1*2.5" SATA bay, DC 9~36V
PA-60DC12		AC/DC adaptor ,DC12V/5A 60W

KMDA-3201

Intel Skylake-U/Kabylake-U CPU,3*LAN, 7*USB, 6*COM, 4K Dual independent display, 8-bit DIO, Intel Vpro, TPM2.0, DC 9~30V

Key Specification

- Aluminum Chassis, fanless heat dissipation design
- Intel Skylake-U/Kabylake-U CPU
- 2*DDR4 2133MHz SODIMM RAM, 32GB max.
- 1*HDMI & 1*DPdisplay, support 4K Dual display
- 3*Gig LAN, 4*USB3.0, 3*USB2.0(one build-in)
- 6*COM, 8-bit DIO, Line out
- 1*Mini PCIe(PCle+USB) full-height card, 1*M.2 2242 B-key
- 1*mSATA, 1/2*2.5" SATA bay
- Support Intel vPro technology and optional TPM 2.0 security encryption
- DC 9~36V wide voltage power supply,
With reverse polarity protection, short circuit protection, over voltage & over current protection



Product Overview

KMDA-3201 is a new industrial design Box Computer with aluminum chassis and fanless design. It is equipped with Intel Skylake-U/Kabylake-U processor. It supports Intel vPro technology and optional TPM2.0 hardware encryption technology, high reliability, DC9-30V wide-voltage power supply, widely used in artificial intelligence, machine vision and intelligent transportation industries.

Product Parameters

Processor

CPU	Intel Skylake-U/Kabylake-U CPU Celeron/ Core i3/i5/i7 U
RAM	2*260-Pin SODIMM, DDR4,2133MHz, 32GB max.
Graphics	Intel Gen. 9th HD Graphics, HEVC/H265 HW HD codec, HDMI: 3840*2160@30Hz, DP: 4096*2304@60Hz
LAN	2*Intel I211AT PCIe Gig. Ethernet, 10-1000M, 1*Intel I219 LM support Intel Vpro
USB	4* USB3.0, 2*USB2.0 , 1*USB2.0 (Build-in)
Display	1*DP+1*HDMI
Audio	1*Line out , Realtek ALC662VD
COM/ Others	2*RS232/422/485, 4*RS232, 1*2 pin terminal, remote switch,USB mouse/keyboard
DIO	8-bit TTL, programmable input & output (2*5Pin Phoenix terminal)

Storage

Storage	1*2.5" HDD SATA3 bay, 6.0 Gbps, 1*mSATA Full-height card, support AHCI
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Others

Indicator light	1*power indicator, 1*hard disk indicator, 3*CPU temperature indicator (Red is high temperature, Yellow is normal temperature, Green is low temperature)
Control switch	1*power switch (front panel), 1*2pin terminal switch signal(rear panel), 1*AT/ATX selector switch (front panel)
Watchdog timer	Programmable timeout interrupt or system reset, 1 to 255 seconds

Expansion

Expansion Port	1*Mini PCIe with SIM slot , 1*M.2 B-key with PCIe+USB signal & SIM slot,support dual 4G/Wifi/BT, I-port: optional 2*USB2.0, LVDS or Mini PCIe interface
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Power Supply

Input voltage	DC IN 9~30V, 3pin terminal, With reverse polarity protection, short circuit protection, over voltage & over current protection
TDP	27.72W (I5-7200U 8GB)

Mechanical

Sturcture	Aluminum Chassis, SGCC frame
Color	Silver gray
Installation	desktop mousing
Dimension(W*H*D)	210*144.3*75.5mm
Net Weight	2.20KG

Environmental

Operating Temp	-20°C~70°C – fanless design, wide-temperature SSD -10°C~50°C – fanless design, HDD
Storage Temp	-40°C~85°C
Storage Humidity	10~90%@40°C, No- condensation
Vibration	5 grms/5~500Hz/random/during operation (SSD) 1 grms/5~500Hz/random/during operation (HDD)

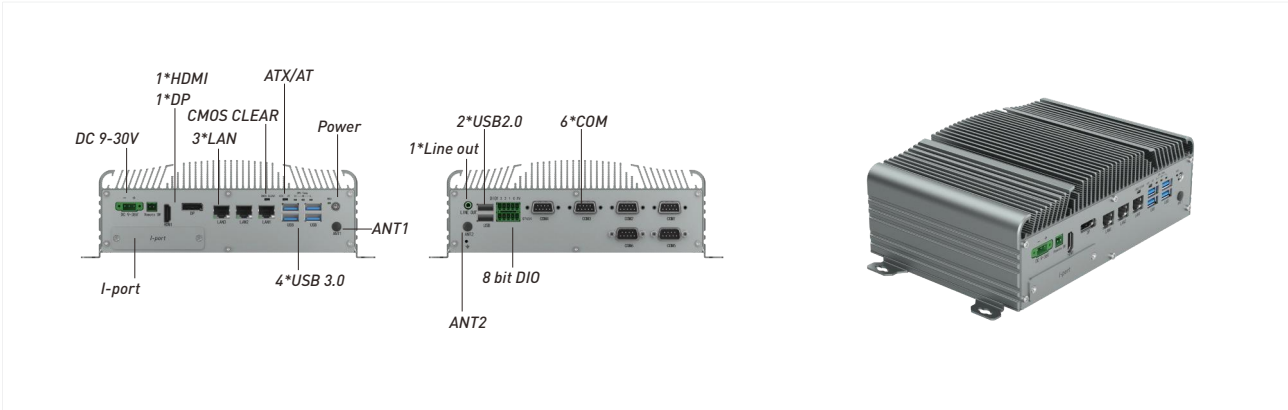
Shock	50g peak acceleration(duration 11ms) with SSD, 20g peak acceleration(duration 11ms) with HDD
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Certificate/EMC	CE/FCC Class A
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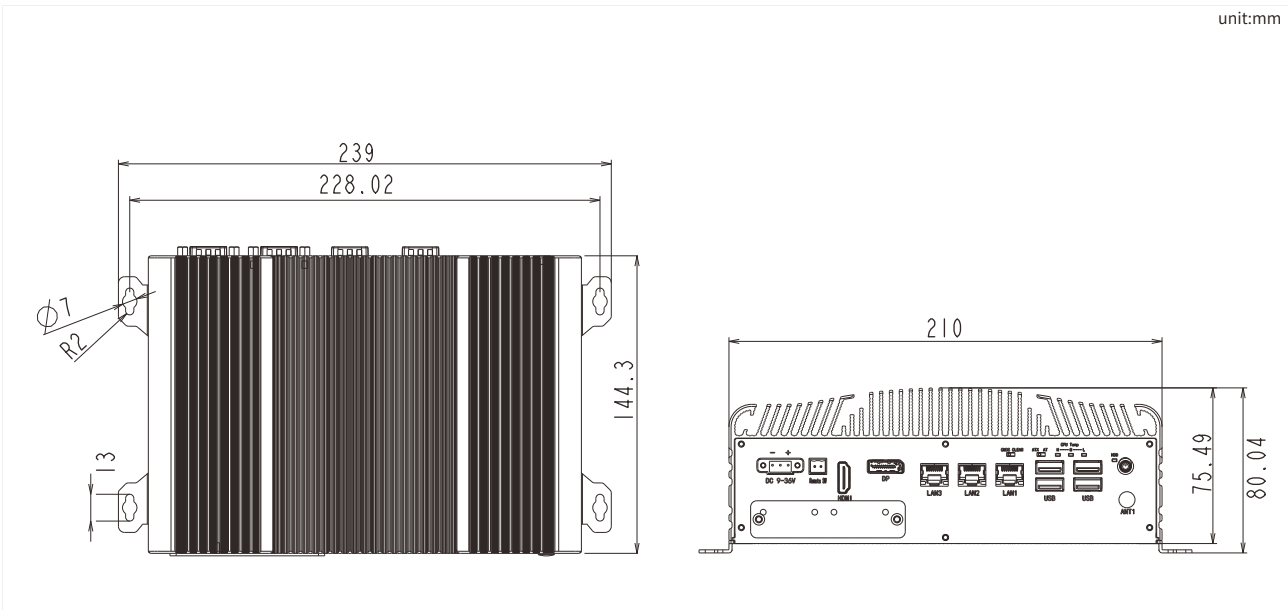
OS

Operating system	Windows 7, Windows 10, Linux Fedora,Ubuntu
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I/O View



Dimensions



Ordering Information

Model	Processor	Specifications
KMDA-3201/S001	Intel Core I3-6100U/I3-7100U	3*LAN, 4*USB3.0, 3*USB2.0, 6*COM, 8-bit DIO, 1 *Mini PCIe, 1*M.2, 1*HDMI, 1*DP , 1*Line out, 1*I-port, 1*2.5" SATA bay, 1*mSATA, DC 9~30V
KMDA-3201/S002	Intel Core I5-6200U/I5-7200U	
KMDA-3201/S003	Intel Core I7-6500U/I7-7500U	
KMDA-3201/S004	Intel Celeron 3855U/3865U CPU	
PA-60DC12		AC/DC adaptor,DC12V@5A 60W
PA-120DC19		AC/DC adaptor,DC19V/6.32A,120W

KMDA-3202

Intel Skylake-U/Kabylake-U CPU, 3*LAN, 4*POE, 9*USB, 6*COM, Dual 4K display, 8-bit DIO+16-bit iso DIO,Intel Vpro, TPM2.0, DC 9~30V

Key Specification

- Aluminum Chassis, fanless heat dissipation design
- Intel Skylake-U/Kabylake-U CPU
- 2*DDR4 2133MHz SODIMM RAM, 32GB max.
- 1*HDMI & 1*DP display, support 4K Dual display
- 3*Gig LAN, 4*POE, 4*USB3.0, 5*USB2.0 (one build-in)
- 6*COM, 1*PS2, 16bit iso DIO, 8-bit DIO, Line out & Mic
- 1*Mini PCIe(PCle+USB) full-height card, 1*M.2 2242 B-key
- 1*mSATA, 1/2*2.5" SATA bay
- Support Intel vPro technology and optional TPM 2.0 security encryption
- DC 9~36V wide voltage power supply, With reverse polarity protection, short circuit protection, over voltage & over current protection



Product Overview

KMDA-3202 is a new industrial design Box Computer with aluminum chassis and fanless design. Using Intel Skylake-U/Kabylake-U processors, dual-channel DDR4 2133MHz SODIMM, up to 32GB, it is widely used in industries such as artificial intelligence, machine vision and robotics.

Product Parameters

Processor

CPU	Intel Skylake-U/Kabylake-U CPU Celeron/ Core i3/i5/i7 U
RAM	2*260-Pin SODIMM, DDR4,2133MHz, 32GB max.
Graphics	Intel Gen. 9th HD Graphics, HEVC/H265 HW HD codec, HDMI: 3940*2160@30Hz, DP: 4096*2160@60Hz
LAN	2*Intel I211AT PCIe Gig. Ethernet,10-1000M, 1*Intel I219 LM support Intel Vpro, 4*Intel I211AT PCIe Full bandwidth POE
USB	4* USB3.0, 4*USB2.0 , 1*USB2.0 (Build-in)
Display	1*DP+1*HDMI
Audio	1*Line out+1*Mic,Realtek ALC662VD
COM/ Others	2*RS232/422/485, 4*RS232, 1*2pin terminal, Remote switch interface,1*PS/2(mouse/keyboard)
DIO	8-bit TTL, programmable input & output(2*5Pin Phoenix terminal) 8-bit Iso. DI(1*10Pin Phoenix terminal), 8-bit Iso. DO (100mA) (1*10Pin Phoenix terminal)

Storage

Storage	1*2.5" SATA3 bay, 6.0 Gbps HDD/SSD, 1*mSATA Full-height card, support AHCI
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Others

Indicator light	1*power indicator, 1*hard disk indicator, 3*CPU temperature indicator (Red is high temperature, Yellow is normal temperature, Green is low temperature)
Control switch	1*power switch (front panel), 1*2pin terminal switch signal(rear panel), 1*AT/ATX selector switch (front panel)
Watchdog timer	Programmable timeout interrupt or system reset, 1 to 255 seconds

Expansion

Expansion Port	1*Mini PCIe with SIM slot, 1*M.2 B-key with PCle+USB signal and SIM slot, support dual 4G/Wifi/BT
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Power Supply

Input voltage	DC IN 9~30V, 3pin terminal, With reverse polarity protection, short circuit protection, over voltage & over current protection
TDP	27.72W(I5-7200U 8GB)

Mechanical

Sturcture	Aluminum Chassis, SGCC frame
Color	Silver gray
Installation	desktop mouning
Dimension(W*H*D)	210*144.3*75.5mm

Net Weight

Net Weight	2.20KG
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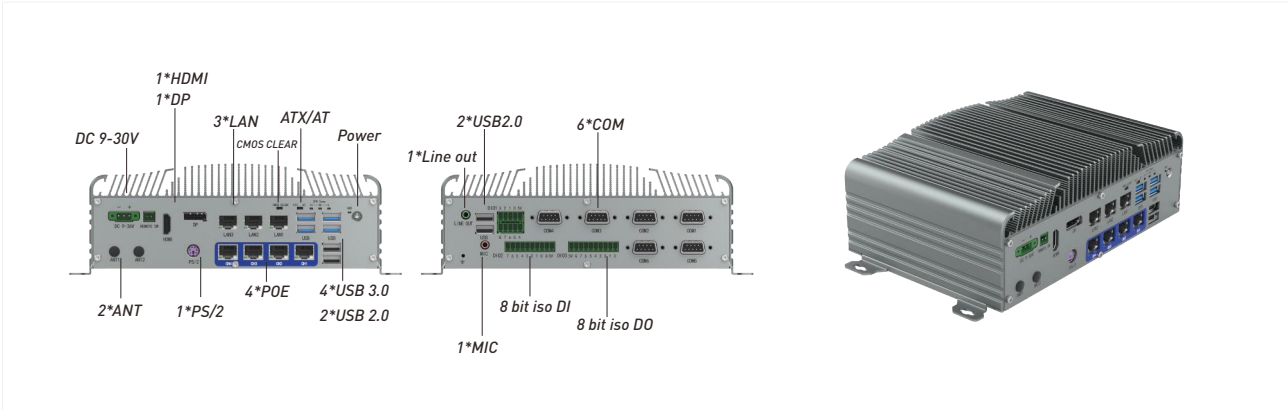
Environmental

Operating Temp	-20°C~70°C – fanless design, wide-temperature SSD -10°C~50°C – fanless design, HDD
Storage Temp	-40°C~85°C
Storage Humidity	10~90%@40°C, No- condensation
Vibration	5 grms/5~500Hz/random/during operation (SSD) 1 grms/5~500Hz/random/during operation (HDD)
Shock	50g peak acceleration(duration 11ms) with SSD, 20g peak acceleration(duration 11ms) with HDD
Certificate/EMC	CE/FCC Class A

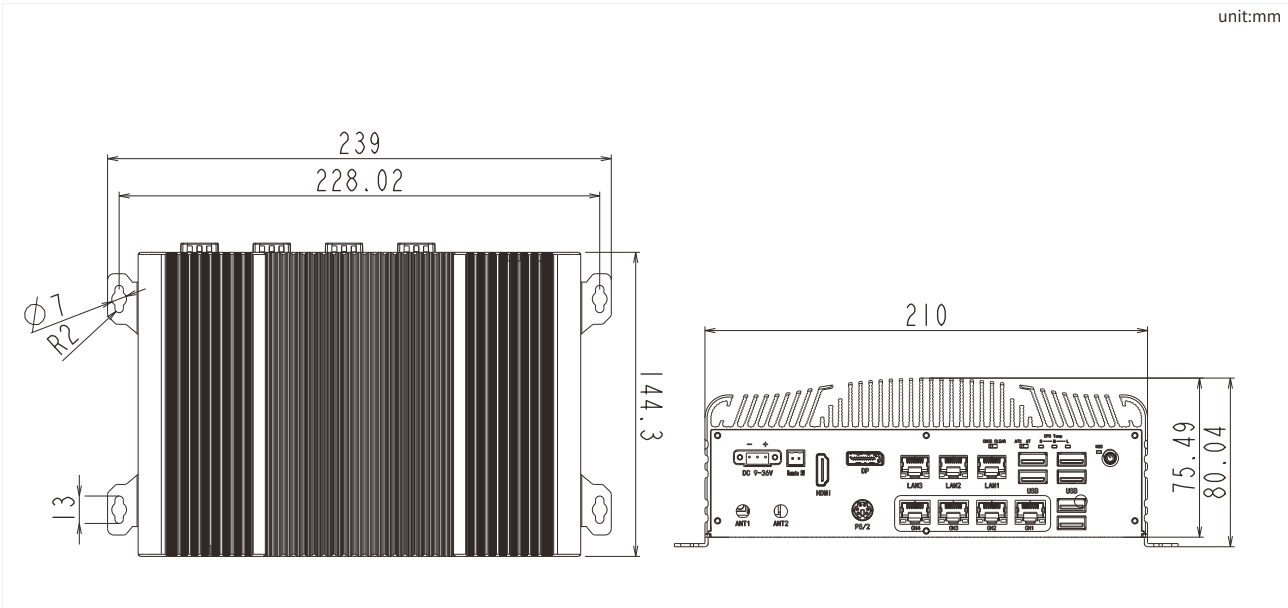
OS

Operating system	Windows 7, Windows 10, Linux Fedora,Ubuntu
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I/O View



Dimensions



Ordering Information

Model	Processor	Specifications
KMDA-3202/S001	Intel I3-6100U/I3-7100U	3*LAN, 4*POE, 4*USB3.0, 5*USB2.0, 6*COM, 16-bit iso. DIO, 8-bit DIO, 1 *Mini PCIe, 1*M.2, 1*PS/2, 1*HDMI, 1*DP , 1*Line out,1*Mic, 1*2.5" SATA bay, 1*mSATA, DC 9~30V
KMDA-3202/S002	Intel I5-6200U/I5-7200U	
KMDA-3202/S003	Intel I7-6500U/I7-7500U	
KMDA-3202/S004	Intel Celeron 3855U/3865U	
PA-60DC12		AC/DC adaptor, DC12V/5A 60W--for KMDA-3202-T00X
PA-120DC19		AC/DC adaptor,DC19V/6.32A 120W--forKMDA-3202-S00X

KMDA-3212

Intel® Skylake-U/Kabylake-U CPU, 2/3*LAN, 7*USB, 4*COM, Dual 4K display, 8-bit DIO,Intel Vpro, TPM2.0, DC IN 12~24V

Key Specification

- Aluminum Chassis, fanless heat dissipation design
- Intel Skylake-U/Kabylake-U CPU
- 1*DDR4 2133MHz SODIMM RAM, Max. 16GB
- 1*HDMI & 1*DP display, support 4K Dual display, 1*VGA
- 2/3*Gig LAN, 4*USB3.0, 3*USB2.0 (one build-in)
- 4*COM, 8-bit DIO, 1*Line out, 1*Mic
- 1*MiniPCIe(PCIe+USB)
- 1*mSATA, 1*2.5" SATA bay
- Support Intel vPro technology and optional TPM 2.0 security encryption
- DC 12~24V wide voltage power supply



Product Overview

KMDA-3212 is a new industrial design Box Computer of JHCTECH with aluminum chassis and fanless design. Equipped with Intel® Skylake-U/Kabylake-U CPU, 1*mSATA, dual storage, optional support for TPM2.0 and support for iVpro technology. DC12~24V, It is suitable for ITS, medical imaging, intelligent transportation fields.

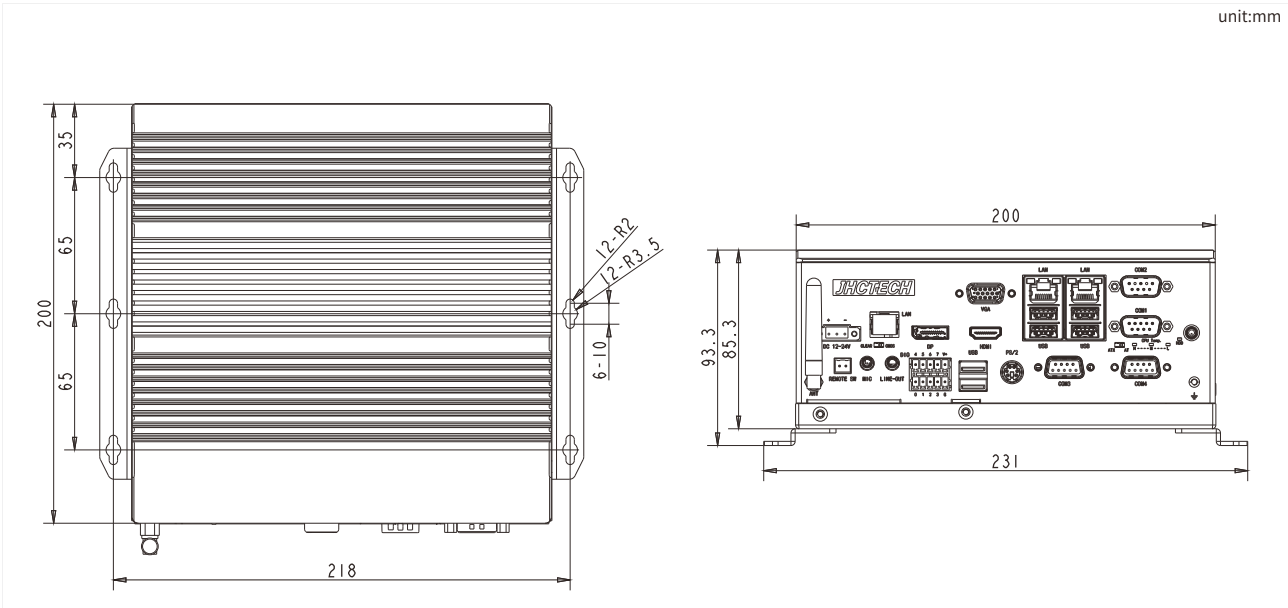
Product Parameters

Processor		Expansion	
CPU	Intel Skylake-U/Kabylake-U CPU Celeron/ Core i3/i5/i7 U	Expansion Port	1*Mini PCIe, with SIM slot, support 4G LTE、Wifi/BT
RAM	1*260-Pin SODIMM, DDR4,2133MHz, Max. 16GB	Power Supply	
Graphics	Intel Gen. 9th HDGraphics, HEVC/H265 HW HD codec, HDMI: 4096*2304@24Hz, DP: 4096*2304@60Hz,VGA: 1920*1200@60Hz	Input voltage	DC IN 12~24V, 3pin terminal(front panel),
LAN	2*Intel I211AT PCIe Gig. Ethernet,10-1000M; 1*Intel I219 LM support Intel Vpro,	TDP	58.56W(I5-7200U 16GB DDR4)
USB	4* USB3.0, 2*USB2.0 , 1*USB2.0 (Build-in)	Mechanical	
Display	1*DP+1*HDMI+1*VGA	Sturcture	Aluminum Chassis, SGCC frame
Audio	1*Line out+1*Mic, Realtek ALC662VD	Color	Silver gray
COM/ Others	2*RS232/422/485, 2*RS232, 1*PS/2(mouse/keyboard)	Installation	desktop mousing
DIO	8-bit TTL, programmable input & output(2*5Pin Phoenix terminal)	Dimension(W*H*D)	200*200*85.3mm
Storage		Net Weight	3.3KG
Storage	1*2.5" SATA3 bay, 6.0 Gbps HDD/SSD, 1*mSATA , support AHCI	Environmental	
Others		Operating Temp	-20°C~70°C – fanless design, wide-temperature SSD -10°C~50°C – fanless design, HDD
Indicator light	1*power indicator, 1*hard disk indicator, 3*CPU temperature indicator (Red is high temperature, Yellow is normal temperature, Green is low temperature)	Storage Temp	-40°C~85°C
Control switch	1*power switch (front panel), 1*2pin terminal switch signal(rear panel), 1*AT/ATX selector switch (front panel)	Storage Humidity	10~90%@40°C, No- condensation
Watchdog timer	Programmable timeout interrupt or system reset, 1 to 255 seconds	Vibration	5 grms/5~500Hz/random/during operation (SSD) 1 grms/5~500Hz/random/during operation (HDD)
		Shock	50g peak acceleration(duration 11ms) with SSD, 20g peak acceleration(duration 11ms) with HDD
		Certificate/EMC	CE/FCC Class A
		OS	
		Operating system	Windows 7, Windows 10, Linux Fedora,Ubuntu

I/O View



Dimensions



Ordering Information

Model	Processor	Specifications
KMDA-3212/S001	Intel I3-6100U/I3-7100U	3*LAN, 4*USB3.0, 3*USB2.0, 4*COM, 8-bit DIO, 1*Mini PCIe,1*HDMI, 1*DP, 1*VGA, 1*PS/2, 1*Line out, 1*Mic, 1*2.5" SATA bay, 1*mSATA, DC 12~24V
KMDA-3212/S002	Intel I5-6200U/I5-7200U	
KMDA-3212/S003	Intel I7-6500U/I7-7500U	
KMDA-3212/S004	Intel Celeron 3855U/3865U	
PA-60DC12		AC/DC adaptor,DC12V/5A 60W
PA-120DC19		AC/DC adaptor,DC19V/6.32A 120W

KMDA-3230

Intel® Whiskey lake U CPU, 2-CH DDR4, 1*HDMI, 1*DP, 5*G-LAN, 5*COM, 4*USB3.1 , 2*USB2.0, DC 9~36V

Key Specification

- Aluminum Chassis, fanless heat dissipation design
- 8th-Gen Intel® Whiskey lake U series CPU
- 2-Ch DDR4 2400MHz SODIMM, 32GB max.
- 1*HDMI & 1*DP display, support 4K Dual display
- 1*Line out&Mic,4*USB3.1,2*USB2.0
- 5* GbE LAN,5*COM ,8-bit iso DIO
- 1*mSATA,1*2.5" SATA bay
- 1*M.2,2230 E-Key, 1*Mini-PCle,1*SIM slot
- DC 9~36V wide voltage power supply



Product Overview

KMDA-3230 is a fanless embedded box PC, equipped with the 8th generation Intel® Whiskey lake U series processor. DC9~36V wide voltage power supply, Aluminum chassis for hard disk heat dissipation. It is small, powerful and exquisite, suitable for applications such as industrial IoT and machine vision.

Product Parameters

Processor

CPU	Intel® Whiskey lake U Celeron/Core i3/i5/i7
RAM	2*DDR4 SODIMM,2400MHz, 32GB max.
Graphics	Intel® Gen. 9 UHD Graphics,Support dual independent display HDMI: 4096*2304@24Hz DP: 4096*2304@60Hz
LAN	4*Intel® I210AT PCIe, Gig. Ethernet, 10-1000M; 1*Intel®I219LM
USB	4* USB3.1, 2*USB2.0
Display	1*DP+1*HDMI
Audio	1*Line out+1*Mic, Realtek ALC662VD
COM/ Others	2*RS485, 3*RS232,
DIO	8-bit Iso. DIO(4-bit 2.5KV optical Iso. DO,4-bit 2.5KV optical Iso. DI)

Storage

Storage	1*2.5" SATA port, 1*mSATA Full-height card, support AHCI
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Others

Indicator light	1*power indicator, 1*hard disk indicator, 3*CPU temperature indicator (Red is high temperature, Yellow is normal temperature, Green is low temperature)
Control switch	1*Power switch, 1*AT/ATX mode selection switch, 1*Clear CMOS data switch
Watchdog timer	Programmable timeout interrupt or system reset, 1 to 255 seconds

Expansion

Expansion Port	1*Mini PCIe, with SIM slot, support 3G/4G/Wifi/ BT/ GPRS, 1*M.2 E-key 2230 Wifi/BT module expansion, 1*I-port(LPT/USB2.0/16-bit DIO/Mini PCIe,etc)
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Power Supply

Input voltage	DC IN 9~36V, 3pin terminal,
TDP	30W (I5-8265U , 8GB DDR4, 128GB SSD)

Mechanical

Sturcture	Aluminum Chassis, SGCC frame
Color	Silver gray
Installation	desktop mouning
Dimension(W*H*D)	210*147*78mm
Net Weight	2.29KG

Environmental

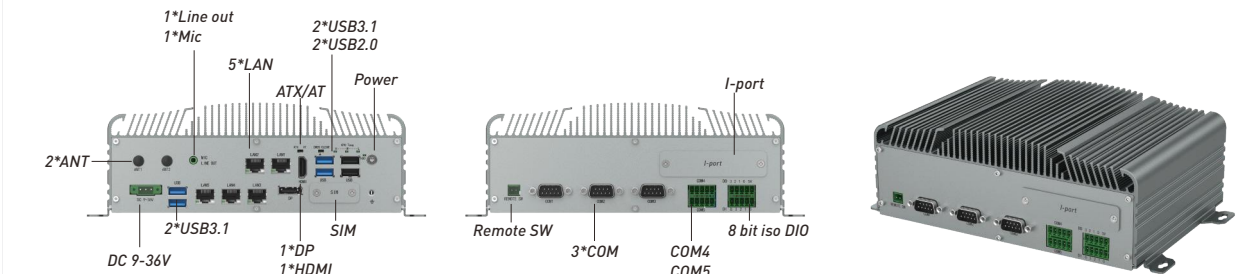
Operating Temp	-20°C~70°C – fanless design, wide-temperature SSD -10°C~50°C – fanless design, HDD
Storage Temp	-40°C~85°C
Storage Humidity	10~90%@40°C, No- condensation
Vibration	5 grms/5~500Hz/random/during operation (SSD) 1 grms/5~500Hz/random/during operation (HDD)
Shock	50g peak acceleration(duration 11ms) with SSD, 20g peak acceleration(duration 11ms) with HDD

Certificate/EMC CE/FCC Class A

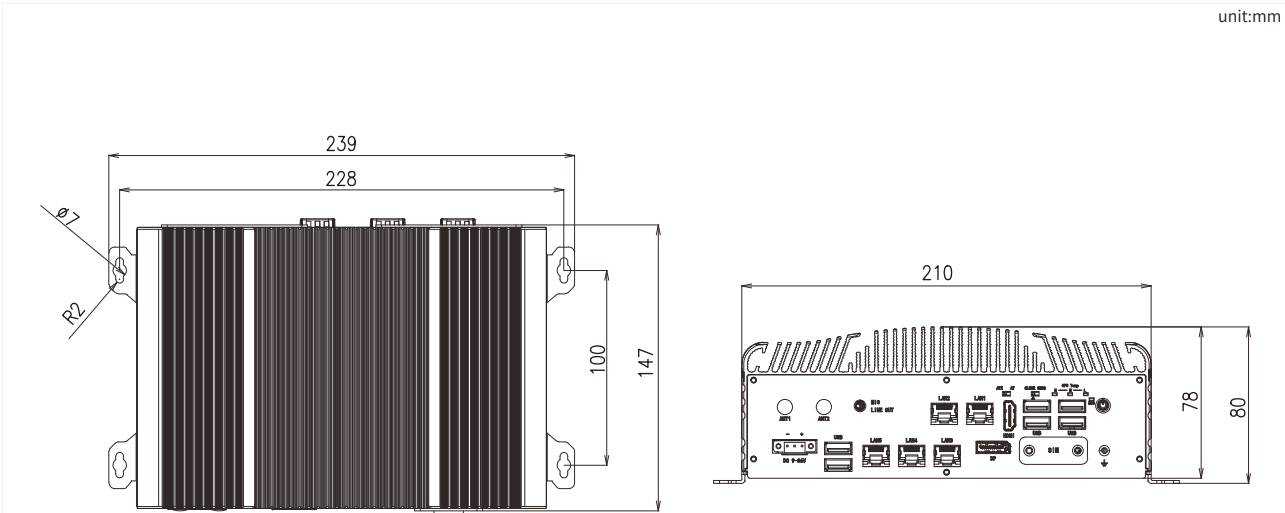
OS

Operating system	Windows 10, SUSE, Ubuntu, Wind River, Red Hat Enterprise
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I/O View



Dimensions



Ordering Information

Model	Processor	Specifications
KMDA-3230/S001	Intel I3-8145U	2*DDR4 SO-DIMM,1*HDMI,1*DP,1*Line out,1*Mic, 5*LAN,4*USB3.1,2*USB2.0,5*COM,8-bit DIO,1*M.2,1*Mini PCIe,1*SIM slot, 1*mSATA,1*2.5"SATA,DC9~36V
KMDA-3230/S002	Intel I5-8265U	
KMDA-3230/S003	Intel I7-8565U	
KMDA-3230/S004	Intel Celeron 4305U	
PA-60DC12		AC/DC adaptor, DC 12V/5A 60W

KMDA-3601

Intel Skylake-S/Kabylake-S CPU, 3*LAN, 4*POE, 6*USB3.0, Dual 4K display,16-bit iso DIO, iVpro, Wide voltage DC 6~48V

Key Specification

- Aluminum Chassis, fanless heat dissipation design
- Intel Skylake-S/Kabylake-S CPU
- 2*DDR4 2133/2400MHz SODIMM RAM, Max. 32GB
- 1*DP, 1*HDMI & 1*VGA three display, DP and HDMI 4K support
- 3*GbE LAN, 4*POE/8/11*LAN, 6*USB3.0, 3*USB2.0
- 4*COM, 16 or 24-bit iso DIO, 1*Line out,1*Mic
- 2*Mini PCIe(PCle+USB),1*M.2 2242 B-Key
- 1*mSATA, 2*2.5" SATA3 bay, support RAID 0,1 support Intel vPro & optional support TPM2.0 security encryption
- DC 6~48V Wide-voltage power supply, short-circuit, over-voltage, over-current and under-voltage protection



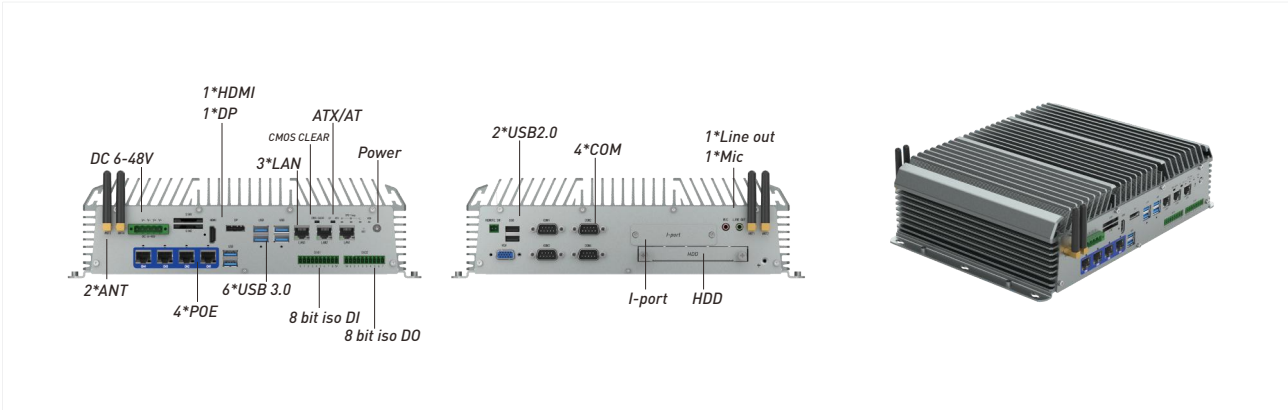
Product Overview

KMDA-3601 is a high-performance box PC with aluminum chassis and fanless design. Equipped with the latest Intel® Skylake-S/Kabylake-S processor, supporting 4G and Wifi/BT wireless communication, DC 6-48V wide-voltage power supply, suitable for applications such as intelligent transportation, video security and machine vision,etc.

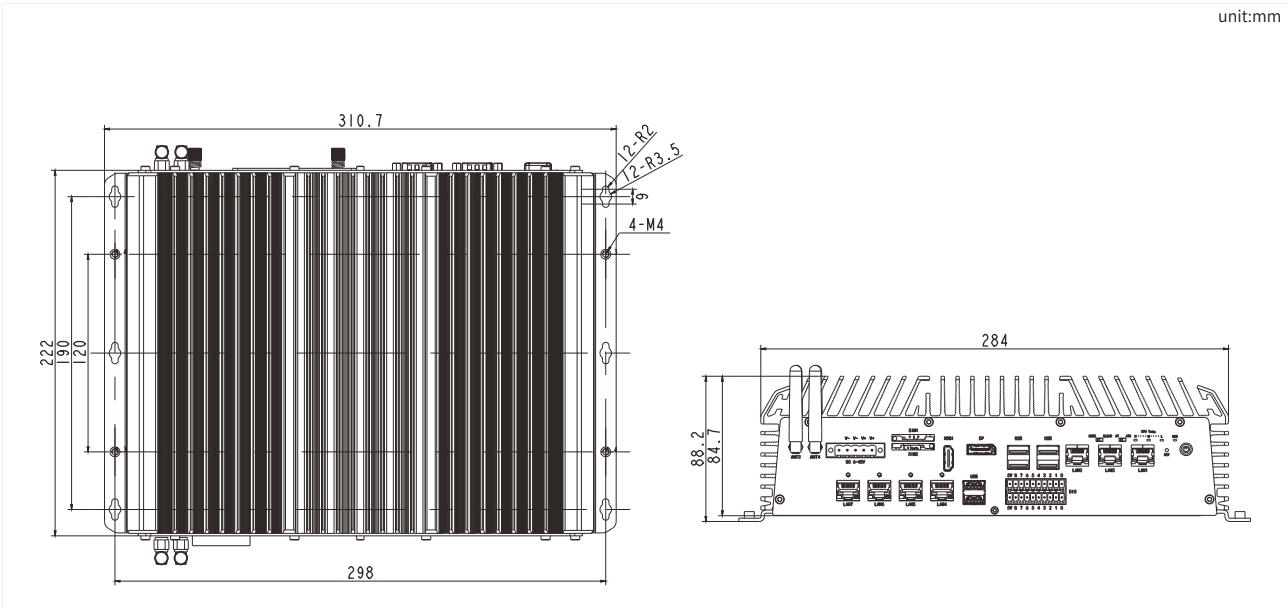
Product Parameters

Processor		Expansion	
CPU	Intel Skylake-S/Kabylake-S Celeron/Pentium/Core i3/i5/i7, Q170 chipset	Expansion Port	1*Mini PCIe, with SIM slot, 1*half-length Mini PCIe, 1*M.2 B-key, with SIM slot,support dual 4G LTE/Wifi/BT 1*I-Port: optional 1*LPT, 1*USB2.0, 16-bit DIO, or Mini PCIe/M.2 Function card interface, i.e. serial port
RAM	2*260-Pin SODIMM, DDR4,2133MHz, Max. 32GB	Power Supply	
Graphics	Intel Gen. 9 HD Graphics, HEVC/H265 HW HD codec, support 3 independent displays DP:4096*2304@60Hz,VGA:2650*1600@60Hz, HDMI:3840*2160@30Hz,	Input voltage	DC 6~48V input,
		Power consumption	38W(I5-7500T , 4GB RAM, 128G SSD)
LAN	2*Intel I210AT PCIe ,10/100/1000Mbps ; 1*Intel I219 LM, support iVpro, 4*Intel I210AT PCIe, Full bandwidth POE,optional 8/11*LAN	Mechanical	
USB	6* USB3.0, 2*USB2.0 , 1*USB2.0 (build-in)	Structure	Aluminum Chassis, SGCC frame
Display	1*DP+1*HDMI+1*VGA	Color	Silver gray
Audio	1*Line out+1*Mic, optional audio	Installation	Desktop mounting
Serial port /Others	2*RS232/422/485, 2*RS232, 8/12-bit 2.5KV Iso. DI(1*10Pin Phoenix terminal), 8/12-bit 2.5KV Iso. DO (1*10Pin Phoenix terminal) Optional 16-bit TTL programming input and output/ 24-bit iso DIO	Dimension(W*H*D)	284*222*84.7mm
DIO		Net Weight	4.65KG
Storage		Environment	
Storage	2*2.5" SATA,HDD/SSD,1*mSATA full-height card,1*M.2 2242 B-key	Operating Temp	-20°C~65°C – Fanless design, wide-temperature SSD, -10°C~55°C – Fanless design, normal temperature HDD
Others		Storage Temp	-40°C~85°C
		Storage Humidity	10~90%@40°C, No condensation
		Vibration	5 grms/5~500Hz/random/during operation (SSD) 1 grms/5~500Hz/random/during operation (HDD)
Indicator light	1*power indicator, 1*hard disk indicator, 3*CPU temperature indicator (Red is alarm, Yellow is high temperature, Green is normal temperature)	Shock	50g peak acceleration(duration 11ms) with SSD, 20g peak acceleration(duration 11ms) with HDD
Control switch	1*Power switch, 1*Reset switch; 1*2pin terminal switch signal, 1*AT/ATX selector switch, 1*CMOS/Clear selector switch	Certificate/EMC	CE/FCC Class B
Watchdog timer	Watchdog timeout programmable via software 1 to 255 second	OS	
		OS	Windows 7, Windows 10, Linux Fedora,Ubuntu

I/O View



Dimensions



Ordering Information

Model	Processor	Specifications
KMDA-3601/S001	Intel® Q170 chip+ SKL/KAL-S LGA1151 CPU	3*LAN, 4*POE, 6*USB3.0, 3*USB2.0, 4*COM,16-bit Iso.DIO, 1*M.2, 2*Mini PCIe, 1*HDMI, 1*DP, 1*VGA, 1*Line out, 1*Mic, 1*I-port, 2*2.5" SATA bay 1*mSATA, DC 6~48V
KMDA-3601/S002	Intel® Q170 chip+ SKL/KAL-S LGA1151 CPU	7*LAN, 6*USB3.0, 3*USB2.0, 4*COM, 16-bit DIO,1*M.2, 2*Mini PCIe, 1*HDMI, 1*DP, 1*VGA, 1*Line out, 1*Mic, 1*I-port, 2*2.5" SATA bay, 1*mSATA, DC 6~48V
KMDA-3601/S003	Intel® Q170 chip+ SKL/KAL-S LGA1151 CPU	11*LAN, 4*USB3.0, 3*USB2.0, 4*COM, 24-bit Iso. DIO,1*M.2, 2*Mini PCIe, 1*HDMI, 1*DP, 1*VGA, 1*Line out, 1*Mic, 1*I-port, 2*2.5" SATA bay, 1*mSATA, DC 6~48V
PA-120DC19		AC/DC power adapter,DC19V/6.32A,120W
PA-220DC24		AC/DC Power Adapter,DC24V@9.17A ,220W

KMDA-3602

Intel Skylake-S/Kabylake-S CPU,3*LAN,4*POE,6*USB3.0,MXM3.1GPU,6*4K display, 16-bit iso DIO,ITPS vehicle power

Key Specification

- * Aluminum Chassis, CPU with fanless heat dissipation design
- * Intel Skylake-S/Kabylake-S CPU
- * 2*DDR4 2133/2400MHz SODIMM RAM, Max. 32GB
- * MXM3.1 NVIDIA/AMDGPU module
- * Integrated 1*DP+1*HDMI+1*VGA, Independent Graphics 3*DP+1*HDMI
- * 3*Gig LAN, 4*POE, 6*USB3.0,3*USB2.0
- * 2*COM, 16-bit iso DIO, 1*Line out,1*Mic,2*Mini PCIe
- * 1*M.2 2242B-Key
- * 1*2.5" SATA3 bay, 1*mSATA, Anti-vibration design
- * DC 6~48V wide voltage power supply, ITPS vehicle management function



Product Overview

KMDA-3602 is a high-performance vehicle computer with the latest combination of active and passive heat dissipation design. It is equipped with Intel®Skylake-S/Kabylake-S processor, DC 6-48V wide voltage power supply, ITPS time-delay switch function. CPU+GPU dual processor, high performance, multiple network ports, multiple displays, multiple wireless communications and shock absorption design. It is suitable for mobile law enforcement vehicles and special vehicles.

Product Parameters

Processor	
CPU	Intel Skylake-S/Kabylake-S Celeron/Pentium/Core i3/i5/i7 Q170 chipset
RAM	2*260-Pin ,DDR4,2133/2400MHz, Max. 32GB
Graphics	Intel® Gen. 9 HD Graphics, HEVC/H265 HW HD codec Integrated DP/HDMI, Support dual 4K ultra-high-definition display, Independent Graphics 3*DP+1*HDMI four 4K display 1*MXM 3.1 GPU Module, support up to 120W power consumption GPU
LAN	2*Intel I210AT PCIe ,10/100/1000Mbps ; 1*Intel I219 LM, support iVpro, 4*Intel I210AT PCIe ,Full bandwidth POE,4*LAN (optional)
USB	6* USB3.0, 2*USB2.0 , 1*USB2.0 (build-in)
Display	Integrated 1*DP+1*HDMI+1*VGA ; Discrete 3*DP+1*HDMI
Audio	1*Line out+1*Mic, optional audio
Serial port /Others	2*RS232/422/485 8/12-bit 2.5KV Optically isolated input (1*10Pin Phoenix terminal)
DIO	8/12-bit 2.5KV Optically isolated output (1*10PinPhoenix terminal) Optional 16-bit TTL programming input and output /24-bit iso DIO

Storage	
Storage	1*2.5" SATA3,HDD/SSD,1*mSATA full-height card,1*M.2 2242 B-key

Others	
Indicator light	1*power indicator, 1*hard disk indicator, 3*CPU temperature indicator (Red is alarm, Yellow is high temperature, Green is normal temperature)
Control switch	1*Power switch, 1*Reset switch; 1*2pin terminal switch signal, 1*AT/ATX selector switch, 1*CMOS/Clear selector switch
Watchdog timer	Watchdog timeout programmable via software 1 to 255 second

Expansion	
Expansion Port	1*Mini PCIe, with SIM slot, 1*half-length Mini PCIe, 1*M.2 B-key,with SIM slot,,support dual 4G LTE/Wifi/BT and GPS/BDS navigation, I-Port:optional 1*LPT、16-bit DIO, or 2*Mini PCIe/M.2 Function card, i.e. CAN BUS

Power Supply	
Input voltage	DC 6~48V input,
Power consumption	115.92W(I5-7500T +GTX 1060M GPU)

Mechanical	
Structure	Aluminum Chassis, SGCC frame
Color	Silver gray
Installation	Desktop mounting,Anti-vibration plane
Dimension(W*H*D)	284*222*81mm
Net Weight	5.60KG (with Anti-vibration plane,no GPU)

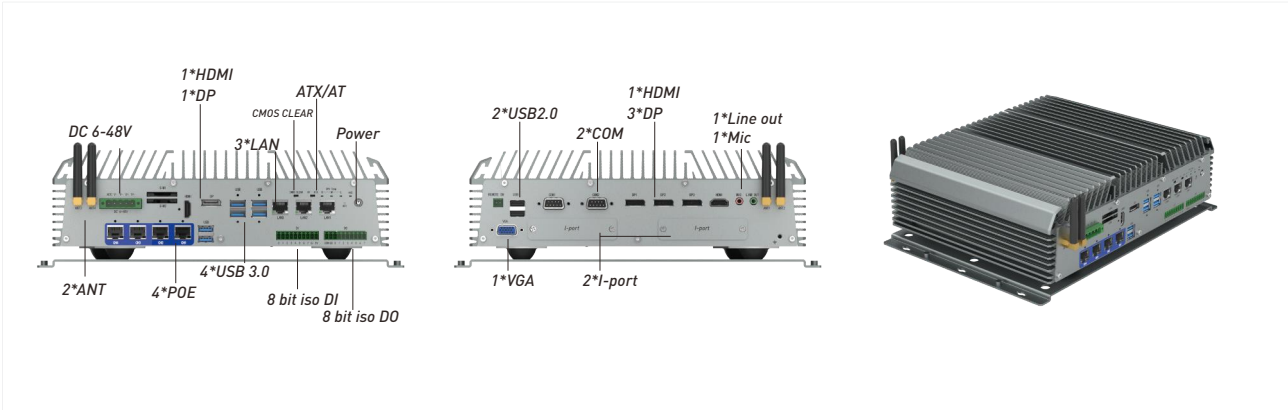
Environment	
Operating Temp	-20℃~65℃ – 35WCPU,Fanless design,no GPU, -10℃~50℃ – 35WCPU,with Fan, 80WGPU;
Storage Temp	-40℃~85℃
Storage Humidity	10~90%@40℃, No condensation
Vibration	5.5 grms/5~500Hz/random/during operation (SSD) 1.5 grms/5~500Hz/random/during operation (HDD)

Shock	55g peak acceleration(duration 11ms) with SSD; 25g peak acceleration(duration 11ms) with HDD
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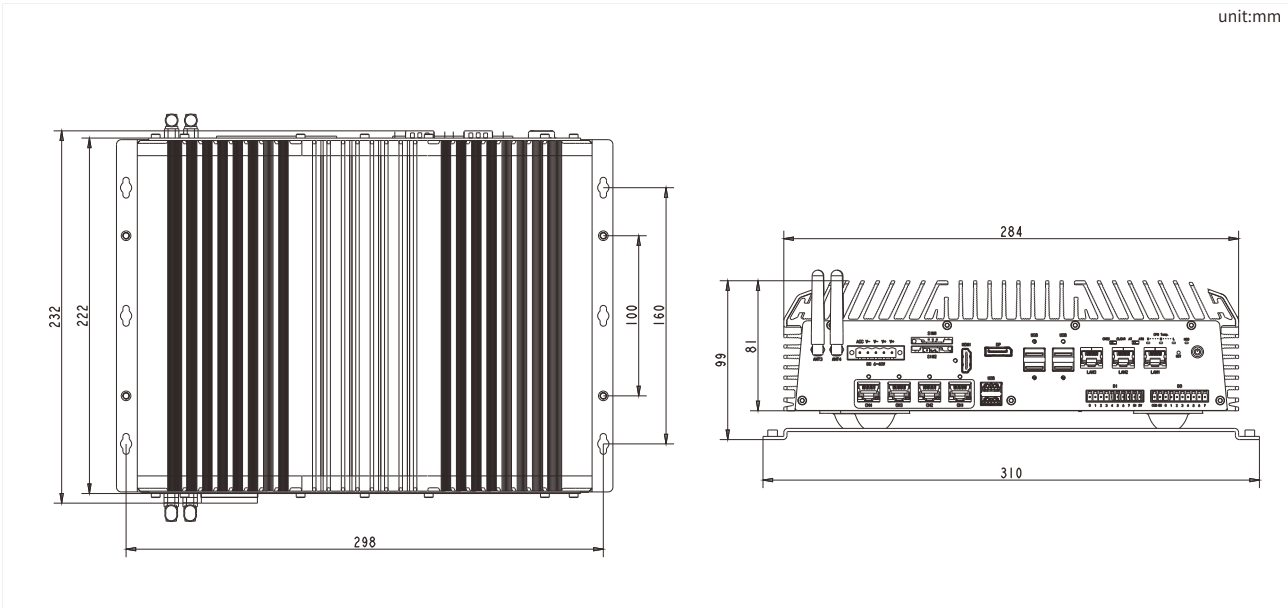
Certificate/EMC	CE/FCC Class B,E-Mark
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OS	
OS	Windows 7, Windows 10, Linux Fedora,Ubuntu

I/O View



Dimensions



Ordering Information

Model	Processor	Specifications
KMDA-3602/S001	Intel® Q170 chip set+ SKL/KAL-S LGA1151 CPU	MXM3.1 GPU slot , 3*LAN, 4*POE, 6*USB3.0, 3*USB2.0, 2*COM, 16-bit sio DIO, 1*M.2, 2*Mini PCIe,2*HDMI,4*DP,1*VGA, 1*Line out,1*Mic, 2*I-port, 1*2.5" SATA3 bay,1*mSATA, ITPS, DC 6~48V
KMDA-3602/T001		7*LAN, 6*USB3.0, 3*USB2.0, 2*COM,16-bit DIO, 1*M.2, 2*Mini PCIe, 1*HDMI, 1*DP, 1*VGA, 1*Line out, 1*Mic, 2*I-port, 1*2.5" SATA3 bay,1*mSATA, ITPS DC 6~48V
NVIDIA GT 1030-2G		MXM3.1 Type A, NVIDIA GT 1030,GDDR5 2GB,64bit,384 CUDA Cores, with radiator
NVIDIA GTX 1050-2G		MXM3.1 Type A, NVIDIA GTX 1050,GDDR5 2GB,128bit,768 CUDA Cores, with radiator
NVIDIA GTX 1050TI-4G		MXM3.1 Type A, NVIDIA GTX 1050TI,GDDR5 4GB,128bit,768 CUDA Cores, with radiator
NVIDIA GTX 1060M-6G		MXM3.1 Type B, NVIDIA GTX 1060M,GDDR5 6GB,192bit,1280 CUDA Cores, with radiator
NVIDIA GTX 1070M-8G		MXM3.1 Type B, NVIDIA GTX 1070M,GDDR5 8GB,256bit,2048 CUDA Cores, with radiator
VIDIA GTX 1650-4G		MXM3.1 Type A, NVIDIA GTX 1650,GDDR5 4GB,128bit, 896 CUDA Cores, with radiator
NVIDIA GTX 1660S-6G		MXM3.1 Type B, NVIDIA GTX 1660S,GDDR6 6GB,192bit,1408 CUDA Cores, with radiator
MLU220-MXM		MXM3.1 Type A, Cambricon MLU-220, LPDDR4 8GB,64bit,16TOPS(INT8), with radiator
PA-120DC19		AC/DC power adapter,DC19V/6.32A,120W
PA-220DC24		AC/DC power adapter,DC24V@9.17A ,220W

KMDA-3820

Intel® Skylake-U/Kabylake-U CPU, 2/3*LAN, 7*USB, 4*COM, Dual 4K display, 8/24-bit DIO, iVpro, 2*PCIe/PCI slot, DC IN 12~24V

Key Specification

- Aluminum Chassis, fanless heat dissipation design
- Intel Skylake-U/Kabylake-U CPU
- 1*DDR4 2133MHz SODIMM RAM, Max. 16GB
- 1*HDMI and 1*DP dual 4K display, 1*VGA
- 2/3*Gig LAN, 4*USB3.0, 3*USB2.0 (one is built-in)
- 4*COM, 8-bit DIO, 1*Line out,1*Mic
- 2*PCIeX4/PCI slot, 1*Mini PCIe(PCIe+USB)
- 1*mSATA, 1*2.5" SATA bay, Anti-vibration design
- Support Intel vPro technology and optional TPM 2.0 security encryption
- DC 12~24V wide voltage power supply
- Half-open L-shaped folding cover, convenient for disassembly and assembly of functional modules and hard drives



Product Overview

KMDA-3820 is a new industrial design box PC, with aluminum chassis and fanless design, equipped with Intel® Skylake-U/Kabylake-U processor, optional support TPM2.0 and support iVpro technology, DC 12~24V. L-shaped folding Cover design makes function modules installation easily, very suitable for AI, ITS, Machine Vision and other fields.

Product Parameters

Processor

CPU	Intel Skylake-U /Kabylake-U / Celeron/Core i3/i5/i7
RAM	1*260-Pin ,DDR4,2133MHz, Max. 16GB
Graphics	Intel Gen. 9th HD Graphics, HEVC/H265 HW HD codec, HDMI:4096*2304@24Hz, DP:4096*2304@60Hz,VGA:1920*1200@60Hz
LAN	2*Intel I211AT PCIe ,10/100/1000Mbps ; 1*Intel I219 LM, support iVpro,
USB	4* USB3.0, 2*USB2.0 , 1*USB2.0 (build-in)
Display	1*DP+1*HDMI+1*VGA
Audio	1*Line out+1*Mic, Realtek ALC662VD
COM/Others	2*RS232/422/485, 2*RS232, 1*PS/2 (Mouse and keyboard)
DIO	8-bit DIO, TTL Programmable input-output (2*5Pin) Optional 16-bit DIO, TTL, Programmable input and output

Storage

Storage	1*2.5" SATA3,HDD/SSD,1*mSATA full-height card,Support AHCI mode
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Others

LED	1*power LED, 1*hard disk LED, 3*CPU temperature LED (Red is alarm, Yellow is high temperature, Green is normal temperature)
Switch	1*Power switch (front panel), 1*2 pin terminal switch signal (front panel), 1*AT/ATX selector switch (front panel)
WDT	Watchdog timeout programmable via software 1 to 255 second
TCPM/TPM	support TPM2.0 (optional)

Expansion

Expansion	1*Mini PCIe, with SIM slot, support 4G LTE/Wifi/BT, 1* PCIe X4 (X4) +1*PCIe X4 (X1) ; or 2*32bit PCI
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Power Supply

Power&	DC 12~24V input,
TDP	58.56W (I5-7200U 16GB DDR4)

Mechanical

Structure	Aluminum Chassis, SGCC frame
Color	Silver gray
Installation	Desktop mounting
Dimension(W*H*D)	200*200*128.3mm
Weight	3.65KG

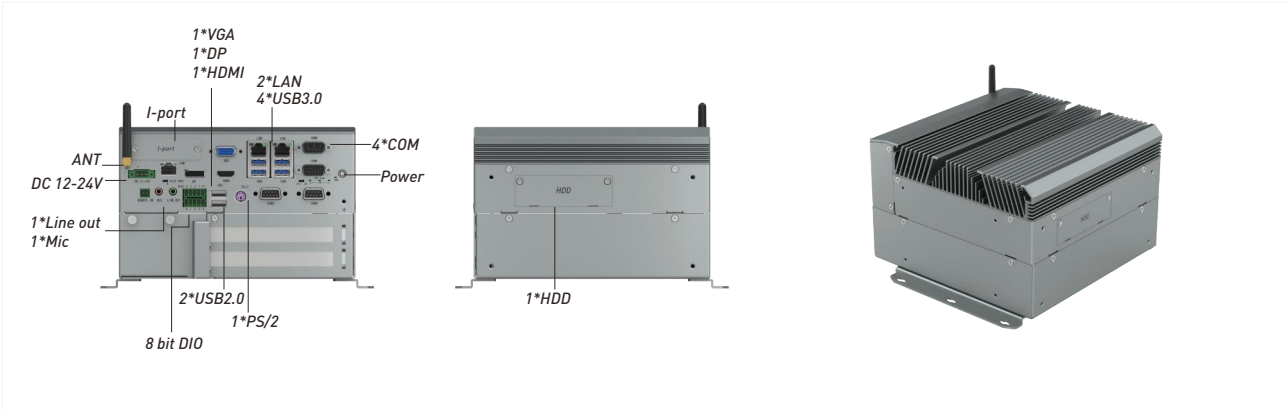
Environment

Operating Temp	-20℃~70℃ – Fanless design, with air flow, wide-temperature SSD; -10℃~50℃ – Fanless design, with air flow, normal temperature HDD
Storage Temp	-40℃~85℃
Storage Humidity	10~90%@40℃, No condensation
Vibration	5 grms/5~500Hz/random/during operation (SSD) 1 grms/5~500Hz/random/during operation (HDD)
Shock	50g peak acceleration(duration 11ms) with SSD; 20g peak acceleration(duration 11ms) with HDD
Certificate/EMC	CE/FCC Class A

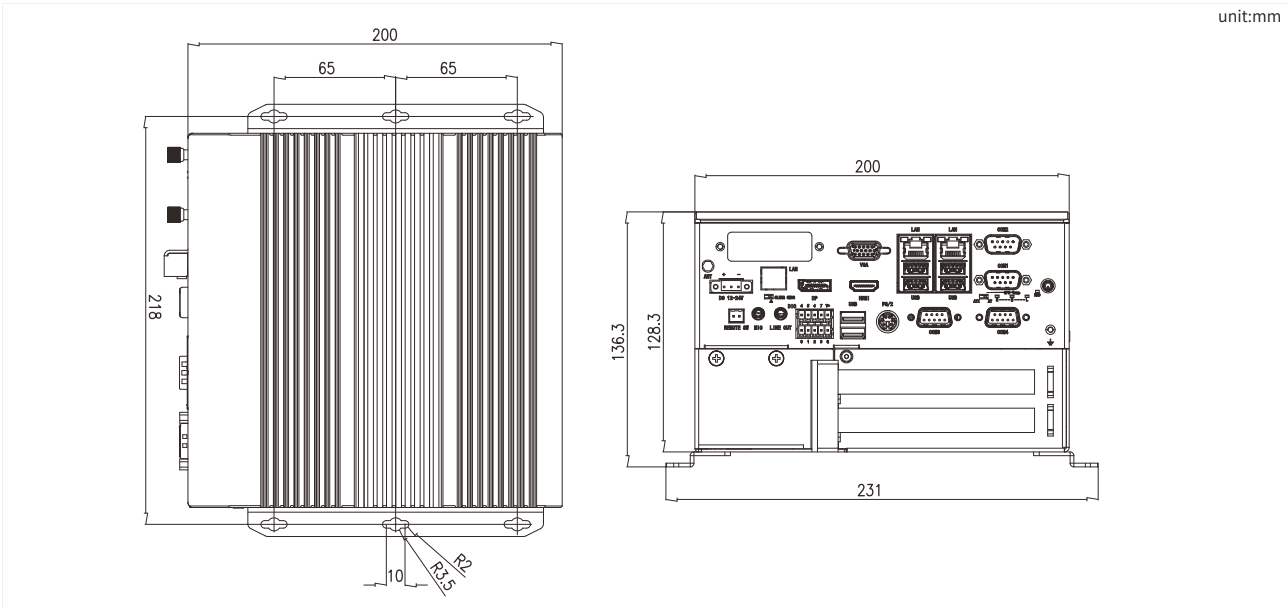
OS

OS	Windows 7, Windows 10, Linux Fedora,Ubuntu
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I/O View



Dimensions



Ordering Information

Model	Processor	Specifications	Expansion
KMDA-3820/S001	Intel I3-6100U/I3-7100U	1*DDR4 SODIMM, 3*G-LAN, 4*USB3.0, 3*USB2.0, 4*COM, 8bit.DIO, 1*Mini PCIe, 1*HDMI, 1*DP, 1*VGA, Audio out和Mic, 1*2.5"SATA, 1*mSATA, I-Port, DC 12-24V	Standard:ECX-238 1*PCIeX4(X4)+1*PCIeX4(X1) Optional:ECI-239 2*32bit PCI
KMDA-3820/S002	Intel I5-6200U/I5-7200U		
KMDA-3820/S003	Intel I7-6500U/I7-7500U		
KMDA-3820/S004	Intel Celeron 3855U/3865U		
PA-60DC12		AC/DC adapter, DC 12V/5A 60W	

KMDA-3610

Intel® Skylake-S/Kabylake-S CPU, 2*LAN, 4*USB3.0, HDMI, DP, VGA, 3 Displays, 2*SATA3, DC 12~24V wide voltage power supply

Key Specification

- Aluminum Chassis, fanless heat dissipation design
- Intel Skylake-S/Kabylake-S CPU
- 2*DDR4 2400/2133MHz SODIMM RAM, Max. 32GB
- 1*DP, 1*HDMI & 1*VGA three display
- 2*LAN, 4*USB3.0, 3*USB2.0, 4*COM, (8+16)- bit DIO
- 1*Mini PCIe(PCle+USB),1*M.2 2242 B-Key
- 1*mSATA, 2*2.5" SATA3
- Optional support TPM2.0 security encryption
- DC 12~24V wide voltage power supply



Product Overview

KMDA-3610 is a fanless high-performance box PC, equipped with Intel® Skylake-S/Kabylake-S series processors, and supports 4G and Wifi/BT wireless functions. DC 12~24V wide voltage power supply, high performance, rich IO function interface. It is suitable for applications in automation, machine vision and intelligent transportation industries.

Product Parameters

Processor

CPU	Intel Skylake-S/Kabylake-S Celeron/Pentium/Core i3/i5/i7, H110 chipset
RAM	2*260-Pin ,DDR4,2133/2400MHz, Max. 32GB
Graphics	Intel Gen. 9 HD Graphics,HEVC/H265 HW HD codec, HDMI:3840*2160@30Hz, DP: 4096*2304@60Hz, VGA:1920*1200@60Hz, Support 2 independent display, 1 mirror display
LAN	1*Intel I211AT PCIe ,10/100/1000Mbps; 1*Intel I219 LM,
USB	4* USB3.0, 2*USB2.0 , 1*USB2.0 (build-in)
Display	1*DP+1*HDMI+1*VGA
Audio	1*Line out+1*Mic,Realtek ALC662VD
Serial port /Others	2*RS232/422/485, 2*RS232,1*PS/2 (Mouse and keyboard)
DIO	8-bit DIO, TTL Programmable input and output (2*5Pin) 16-bit DIO, TTL Programmable input and output (DB25)

Storage

Storage	2*2.5" SATA3,HDD,1*mSATA full-height card,1*M.2 2242 B-key
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Others

LED light	1*power LED, 1*hard disk LED, 3*CPU temperature LED (Red is alarm, Yellow is high temperature, Green is normal temperature)
Control switch	1*Power switch, 1*Reset switch; 1*2pin terminal switch signal, 1*AT/ATX selector switch, 1*CMOS/Clear selector switch
Watchdog timer	Watchdog timeout programmable via software 1 to 255 second
TCPM/TPM	support TPM2.0 (optional)

Expansion

Expansion Port	1*Mini PCIe, with SIM slot, support m4G LTE/Wifi/BT,
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Power Supply

Input voltage	DC 12~24V input,
Power consumption	68.4W(I7-6700T CPU 16GB DDR4)

Mechanical

Structure	Aluminum Chassis, SGCC
Color	Silver gray
Installation	Desktop mounting
Dimension(W*H*D)	221*251*88mm
Weight	4.84KG

Environment

Operating Temp	-20°C~65°C – with air flow, wide-temperature SSD, -10°C~55°C – with air flow, normal temperature HDD
Storage Temp	-40°C~85°C
Storage Humidity	10~90%@40°C, No condensation
Vibration	5 grms/5~500Hz/random/during operation (SSD) 1 grms/5~500Hz/random/during operation (HDD)
Shock	50g peak acceleration(duration 11ms) with SSD; 20g peak acceleration(duration 11ms) with HDD
Certificate/EMC	CE/FCC Class A

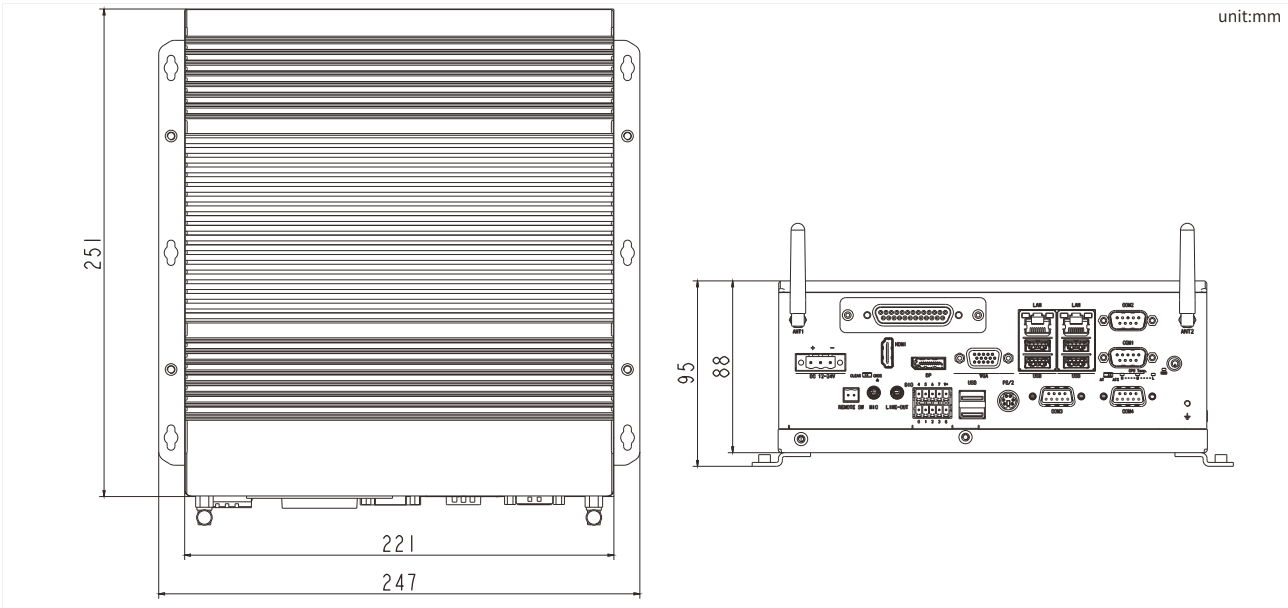
OS

OS	Windows 7, Windows 10, Linux Fedora,Ubuntu
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I/O View



Dimensions



Ordering Information

Model	Processor	Specifications
KMDA-3610/S001	Intel® Skylake-S/Kabylake-S LGA1151 CPU	H110 Chipset, 2*DDR4, 2*LAN, 4*USB3.0,3*USB2.0, 4*COM, 1*Mini PCIe, 1*HDMI, 1*DP, 1*VGA, 1*Line out,1*Mic, 8+16-bit DIO, 1*PS/2, 2*2.5" SATA bay, 1*M.2,1*mSATA, DC 12~24V
PA-120DC19		AC/DC adapter, DC 19V/6.32A 120W
AC-140		8-channel optical isolation input\8-channel high-power relay board

KMDA-3920

Intel® Skylake-S/Kabylake-S CPU, 2*LAN, 4*USB3.0, PCIe X16+PCIe X4/2*PCI expansion,DC 12~24V wide voltage power supply

Key Specification

- Aluminum Chassis, SGCC frame
- Intel Skylake-S/Kabylake-S CPU
- 2*DDR4 2400/2133MHz SODIMM RAM, 32GB max.
- 1*DP, 1*HDMI & 1*VGA, Optional three independent displays(Intel Q170)
- 2*LAN, 4*USB3.0, 3*USB2.0, 4*COM, 8-bit DIO
- Support PCIe X16+PCIeX4 or 2*PCI expansion
- 1*Mini PCIe(PCIe+USB),1*M.2 2242 B-Key
- 1*mSATA, 2*2.5" SATA3, support RAID0,1(Intel Q170)
- Optional TPM2.0 security encryption, support Intel vPro technology(Intel Q170)
- DC 12~24V wide voltage power supply



Product Overview

KMDA-3920 is a high-performance box computer with expansion, equipped with Intel® Skylake-S/Kabylake-S series processors, H110/Q170 chipset, 2*DDR4 2133/2400MHz dual-channel memory supports up to 32GB. The easy-to-detach L-shaped folding cover facilitates the installation of functional modules. It is very suitable for applications in video security, machine vision and intelligent AI industries.

Product Parameters

Processor

CPU	Intel Skylake-S/Kabylake-S Celeron/Pentium/Core i3/i5/i7 H110 chipset, optional Q170 chipset
RAM	2*260-Pin ,DDR4,2133/2400MHz, Max. 32GB
Graphics	Intel Gen. 9 HD Graphics,HEVC/H265 HW HD codec, Support 3 independent displays(Intel Q170) , HDMI:3840*2160@30Hz, DP:4096*2304@60Hz,VGA:1920*1200@60Hz,
LAN	1*Intel I211AT PCIe ,10/100/1000Mbps ; 1*Intel I219 LM, support iVpro (Intel Q170) ,
USB	4* USB3.0, 2*USB2.0 , 1*USB2.0 (build-in)
Display	1*DP+1*HDMI+1*VGA
Audio	1*Line out+1*Mic, Realtek ALC662VD
COM/Others	2*RS232/422/485, 2*RS232, 1*PS/2 (Mouse and keyboard)
DIO	8-bit DIO, TTL Programmable input and output (1*10pin)

Storage

Storage	2*2.5" SATA3,HDD,support RAID0,1(Intel Q170), 1*mSATA full-height card,1*M.2 2242 B-key
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Others

LED	1*power LED, 1*HDD LED, 3*CPU temperature LED (Red is alarm, Yellow is high temperature, Green is normal temperature)
Switch	1*Power SW, 1*Reset SW; 1*2pin terminal SW, 1*AT/ATX SW, 1*Clear CMOS
WDT	Watchdog timeout programmable via software 1 to 255 second
TCPPM/TPM	support TPM2.0 (optional)

Expansion

Expansion	1*Mini PCIe,with SIM slot, support 4G LTE/Wifi/BT, 1*PCIe X16+1*PCIe X4,or 2*32bit PCI
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Power Supply

Power&	DC 12~24V input,
TDP	68.78W (I7-6700T , 4GB DDR4, 1TB HDD,Install card)

Mechanical

Structure	Aluminum Chassis, SGCC frame
Color	Silver gray
Installation	Desktop mounting, wall mounting
Dimension(W*H*D)	220*250*131mm
Weight	5.27KG

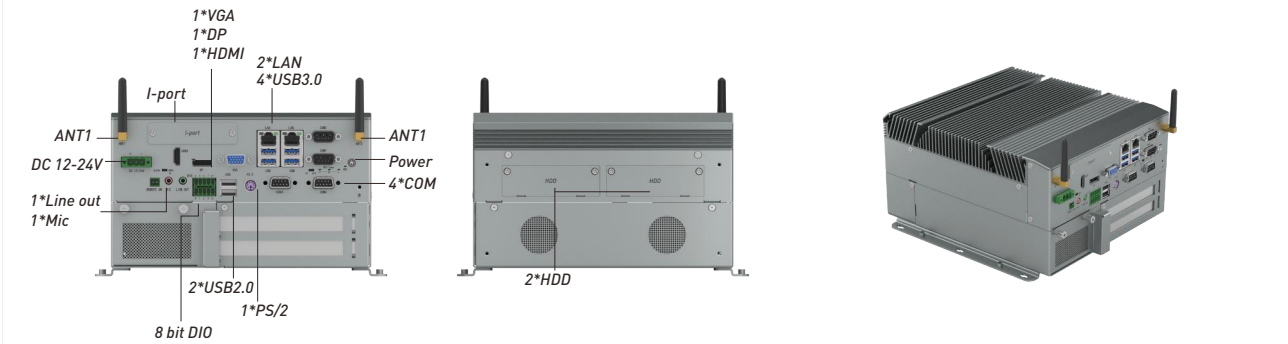
Environment

Operating Temp	-20°C~65°C SSD, with air flow, -10°C~55°C HDD, with air flow;
Storage Temp	-40°C~85°C
Storage Humidity	10~90%@40°C, No condensation
Vibration	5 grms/5~500Hz/random/during operation (SSD) 1 grms/5~500Hz/random/during operation (HDD)
Shock	50g peak acceleration(duration 11ms) with SSD; 20g peak acceleration(duration 11ms) with HDD
Certificate/EMC	CE/FCC Class A

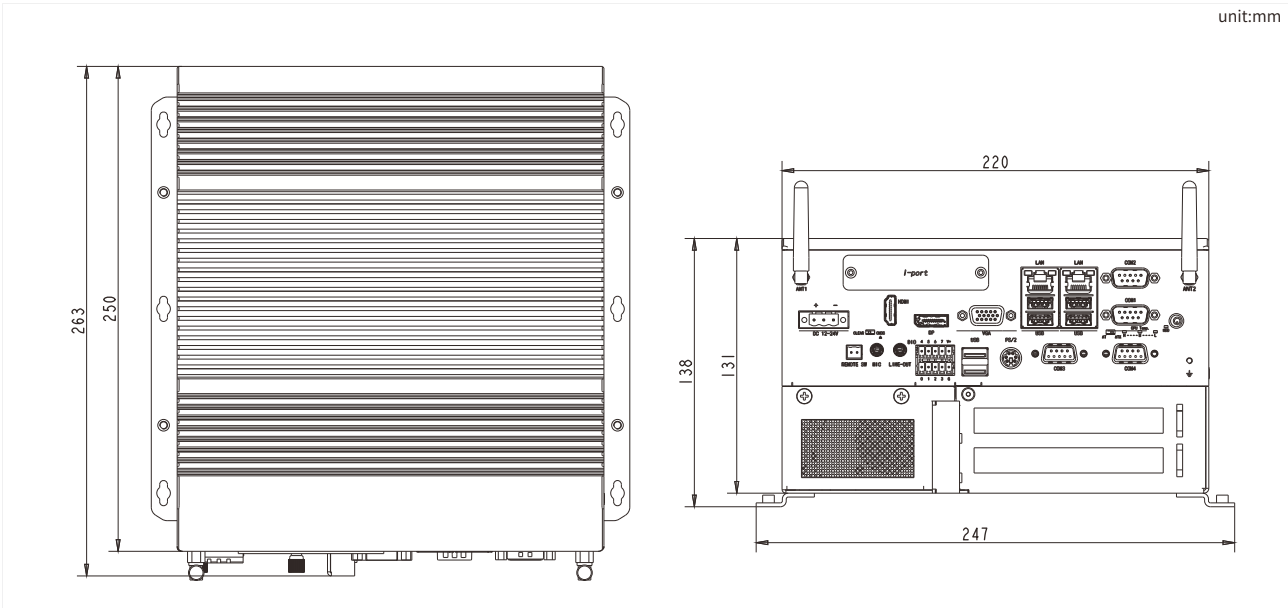
OS

OS	Windows 7, Windows 10, Linux Fedora,Ubuntu
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I/O View



Dimensions



Ordering Information

Model	Processor	Specifications	Expansion
KMDA-3920/S001	Intel® Skylake-S/Kabylake-S LGA1151 CPU,H110 Chipset	2*DDR4, 2*LAN, 4*USB3.0,3*USB2.0, 4*COM, 1*Mini PCIe, 1*HDMI, 1*DP, 1*VGA, 1*Line out,1*Mic, 8-bit DIO, 1*PS/2, 2*2.5"SATA bay, 1*M.2, 1*mSATA, DC 12~24V	Standard:ECX-241 1*PCIeX16(X16)+1*PCIeX4(X4)
KMDA-3920/S002	Intel® Skylake-S/Kabylake-S LGA1151 CPU, Q170 Chipset		Optional:ECI-245 2*32bit PCI
PA-120DC19		AC/DC adapter, DC19V/6.32A 120W	
PA-220DC24		AC/DC adapter, DC24V/9.17A 220W	
AC-140		8-channel optical isolation input\8-channel high-power relay board	

KMDA-3920ETC

Intel® Skylake-S/Kabylake-S CPU, 2*LAN, 4*USB3.0, HDMI, DP, VGA, 10*COM, 16+16-bit DIO, 1*PCIeX16/1*PCI expansion,DC 12~24V

Key Specification

- Aluminum Chassis, fanless heat dissipation design
- Intel Skylake-S/Kabylake-S CPU
- 2*DDR4 2400/2133MHz SODIMM RAM, 32GB max.
- 1*DP, 1*HDMI & 1*VGA, Optional three independent displays(Intel Q170)
- 2*LAN, 4*USB3.0, 10*COM, 16+16-bit DIO
- Support 1*PCIe X16 or 1*PCI expansion slot
- 1*Mini PCIe(PCIe+USB),1*M.2 2242 B-Key
- 1*mSATA, 2*2.5" SATA3, support RAID0,1(Intel Q170)
- Optional TPM2.0 security encryption, support Intel vPro technology (Intel Q170)
- DC 12~24V wide voltage power supply



I/O View



Product Overview

KMDA-3920-ETC is a fanless box computer with expansion, equipped with Intel® Skylake-S/Kabylake-S processor, H110/Q170 chipset, 2*DDR4 2133/2400MHz, dual channel memory, support Max. 32GB. It is very suitable for video security, machine vision and highway Electronic Toll Collection(ETC) industry applications.

Product Parameters

Processor

CPU	Intel Skylake-S/Kabylake-S Celeron/Pentium/Core i3/i5/i7, H110 chipset,optional Q170 chipset
RAM	2*260-Pin ,DDR4,2133/2400MHz, Max. 32GB
Graphics	Intel Gen. 9 HD Graphics,HEVC/H265 HW HD codec, HDMI:3840*2160@30Hz, Support 3 independent displays(Intel Q170), DP: 4096*2304@60Hz,VGA: 1920*1200@60Hz,
LAN	1*Intel I211AT/I210AT , 10-1000M; 1*Intel I219 LM, support iVpro (Intel Q170) ,
USB	4* USB3.0, 1*USB2.0 (build-in)
Display	1*DP+1*HDMI+1*VGA
Audio	1*Line out+1*Mic, Realtek ALC662VD
COM/Others	2*RS232/422/485, 8*RS232, 1*PS/2 (Mouse and keyboard)
DIO	16-bit DIO, TTL Programmable input and output (2*10Pin) 16-bit DIO, TTL Programmable input and output (DB25)

Storage

Storage	2*2.5" SATA3,HDD,support RAID0,1(Intel Q170), 1*mSATA full-height card,1*M.2 2242 B-key
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Others

LED	1*power LED, 1*hard disk LED, 3*CPU temperature LED (Red is alarm, Yellow is high temperature, Green is normal temperature)
Switch	1*Power switch, 1*Reset switch; 1*2pin terminal switch signal, 1*AT/ATX selector switch, 1*CMOS/Clear selector switch
WDT	Watchdog timeout programmable via software 1 to 255 second
TCPM/TPM	support TPM2.0 (optional)

Expansion

Expansion	1*PCIe3.0X16(X16)+1*PCIe3.0X4(X4) or 2*32bit PCI 1*Mini PCIe, withSIM slot, support 4G LTE/Wifi/BT,
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Power Supply

Power& TDP	DC 12~24V input, 68.78W (I7-6700T , 4GB DDR4, 1TB HDD,Install card)
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Mechanical

Structure	Aluminum Chassis, SGCC frame
Color	Silver gray
Installation	Desktop mounting, wall mounting
Dimension(W*H*D)	220*250**131.5mm
Weight	5.27KG

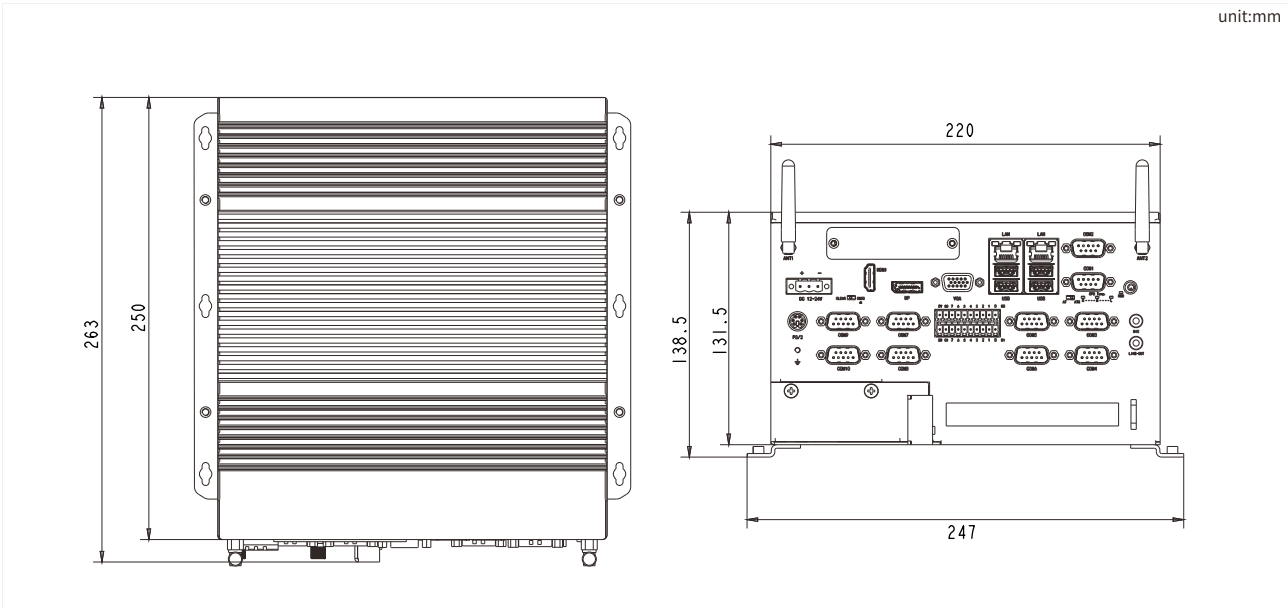
Environment

Operating Temp	-20°C~65°C SSD, with air flow, -10°C~55°C HDD, with air flow;
Storage Temp	-40°C~85°C
Storage Humidity	10~90%@40°C, No condensation
Vibration	5 grms/5~500Hz/random/during operation (SSD) 1 grms/5~500Hz/random/during operation (HDD)
Shock	50g peak acceleration(duration 11ms) with SSD; 20g peak acceleration(duration 11ms) with HDD
Certificate/EMC	CE/FCC Class A

OS

OS	Windows 7, Windows 10, Linux Fedora,Ubuntu
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Dimensions



Ordering Information

Model	Processor	Specifications	Expansion
KMDA-3920-ETC/ S001	Intel® Skylake-S/Kabylake-S LGA1151 CPU, H110 Chipset	2*DDR4 SODIMM, 2*G-LAN, 10*COM, 4* USB3.0, 1*USB2.0, 16bit DIO, 1*PS2, DP/HDMI/VGA, 1*Mini PCIe, Audio out/Mic, 2*2.5" SATA, 1*M.2, 1*mSATA, DC 12-24V	Standard :ECX-241 1*PCIeX16(X16)+1*PCIeX4(X4) Optional:ECI-245 2*32bit PCI
PA-120DC19		AC/DC power adapter,DC19V/6.32A,120W	
PA-220DC24		AC/DC power adapter,DC24V/9.17A ,220W	
PA-300DC24		AC/DC power adapter,DC24V/12.5A ,300W	
AC-140		8-channel isolated input and 8-channel power relay output terminal board,DC 12V,source signal: 16-bit TTL GPIO	

KMDA-3921

Intel® Skylake-S/Kabylake-S CPU, 2*LAN, 4*USB3.0, HDMI, DP, VGA, 3 Displays, PCIe X16+PCIe X1+2*PCI expansion,DC 12~24V power in

Key Specification

- Aluminum Chassis, SGCC box
- Intel Skylake-S/Kabylake-S CPU
- 2*DDR4 2400/2133MHz SODIMM, 32GB max.
- 1*DP, 1*HDMI & 1*VGA, Optional three independent displays(Intel Q170)
- 2*LAN, 4*USB3.0, 3*USB2.0, 4*COM, 8-bit DIO
- 1*PCIe X16+1*PCIeX1+2*PCI expansion
- 1*Mini PCIe(PCIe+USB),1*M.2 2242 B-Key
- 1*mSATA, 2*2.5" SATA3, support RAID0,1(Intel Q170)
- Optional TPM2.0 security encryption, support Intel vPro technology (Intel Q170)
- DC 12~24V wide voltage power supply



Product Overview

KMDA-3921 is a embedded high-performance box computer with expansion, equipped with Intel® Skylake-S/Kabylake-S processor, H110/Q170 chipset, 2*DDR4 2133/2400MHz, dual channel memory, support Max. 32GB. The easy-to-detach L-shaped folding cover is convenient for the installation of functional modules. It is very suitable for applications in video security, machine vision and intelligent AI industries.

Product Parameters

Processor

CPU	Intel Skylake-S/Kabylake-S Celeron/Pentium/Core i3/i5/i7, H110 chipset,optional Q170 chipset
RAM	2*260-Pin ,DDR4,2133/2400MHz,Max. 32GB
Graphics	Intel Gen. 9 HD Graphics,HEVC/H265 HW HD codec, support 3 independent displays (Intel Q170), HDMI:3840*2160@30Hz, DP:4096*2304@60Hz,VGA:1920*1200@60Hz,
LAN	1*Intel I211AT PCIe ,10/100/1000Mbps ; 1*Intel I219 LM, support iVpro (Intel Q170) ,
USB	4* USB3.0, 2*USB 2.0, 1*USB2.0 (build-in)
Display	1*DP+1*HDMI+1*VGA
Audio	1*Line out+1*Mic, Realtek ALC662VD
COM/ Others	2*RS232/422/485, 2*RS232, 1*PS/2 (Mouse and keyboard)
DIO	8-bit DIO (10PinPhoenix terminal) 16-bit DIO (build-in), TTL Programmable input and output

Storage

Storage	2*2.5" SATA3,HDD,support RAID0,1(Intel Q170), 1*mSATA full-height card,1*M.2 2242 B-key
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Others

LED	1*Power LED, 1*HDD LED, 3*CPU temperature LED
Control switch	1*Power SW, 1*Reset SW; 1*2pin terminal SW, 1*AT/ATX SW, 1*CMOS/Clear SW
WDT	Watchdog timeout programmable via software 1 to 255 second
TCPM/TPM	support TPM2.0 (optional)

OS

OS	Windows 7, Windows 10, Linux Fedora,Ubuntu
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Expansion

Expansion	1*PCIe3.0X16(X16)+1*PCIe3.0 X4(X1) +2*32bit PCI, GPU/AI Card<150W<225mm or 2*PCIe3.0 X16(X8)+1*PCIe3.0 X8(X4) 1*Mini PCIe(+SIM),4G LTE/Wifi/BT, I-port: 1*LPT/USB2.0/16-bit DIO/1*Mini PCIe
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Power Supply

Power & TDP	DC 12~24V input, 68.78W (I7-6700T , 4GB DDR4, 1TB HDD)
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Mechanical

Structure	Aluminum Chassis, SGCC frame
Color	Silver gray
Installation	Desktop mounting, wall mounting
Dimension(W*H*D)	220*250**172mm
Weight	5.58KG

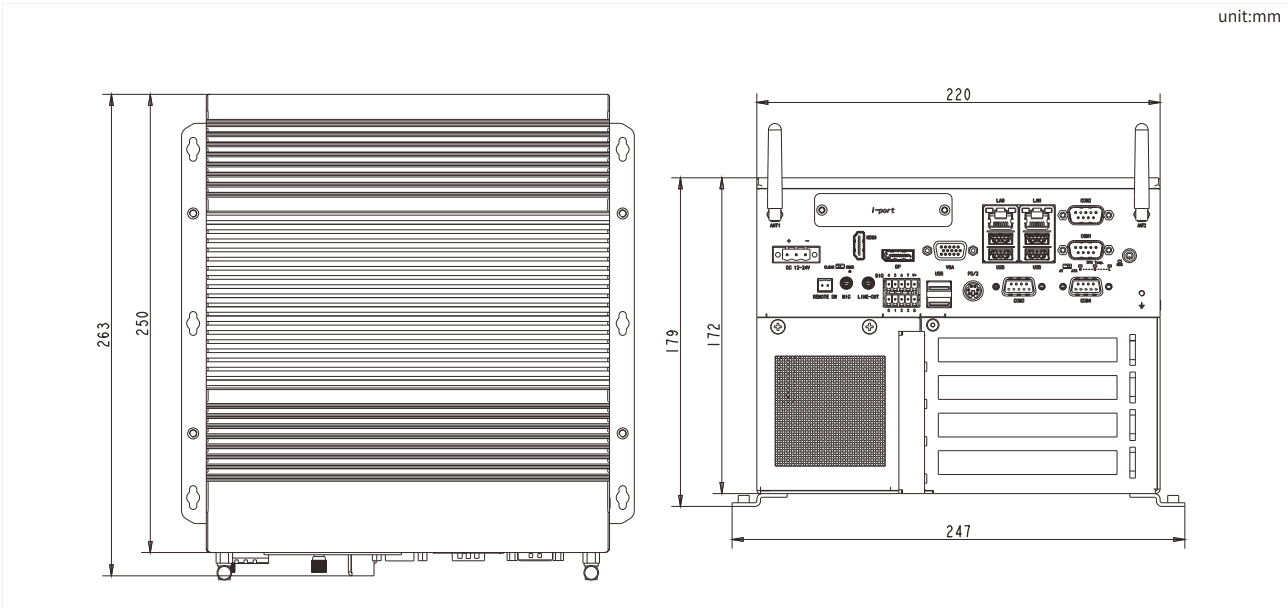
Environment

Operating Temp	-20°C~65°C SSD, with air flow, -10°C~55°C HDD, with air flow;
Storage Temp	-40°C~85°C
Storage Humidity	10~90%@40°C, No condensation
Vibration	5 grms/5~500Hz/random/during operation (SSD) 1 grms/5~500Hz/random/during operation (HDD)
Shock	50g peak acceleration(duration 11ms) with SSD; 20g peak acceleration(duration 11ms) with HDD
Certificate/EMC	CE/FCC Class A

I/O View



Dimensions



Ordering Information

Model	Processor	Specifications	Expansion
KMDA-3921/S001	Intel® Skylake-S/Kabylake-S LGA1151 CPU,H110 Chipset	2*DDR4, 2*LAN, 4*USB3.0,3*USB2.0, 4*COM, 1*Mini PCIe, 1*HDMI,1*DP,1*VGA, 1*Line out,1*Mic, 8-bit DIO,1*PS/2, 1*I-port, 2*2.5" SATA3 bay, 1*M.2, 1*mSATA, DC 12~24V	Standard:ECX-242 1*PCIeX16(X16)+1*PCIeX4(X1)+ 2*32 bit PCI
KMDA-3921/S002	Intel® Skylake-S/Kabylake-S LGA1151 CPU, Q170 Chipset		Standard:ECX-242 1*PCIeX16(X16)+1*PCIeX4(X1)+ 2*32 bit PCI Optional:ECI-249 2*PCIeX16(X8)+1*PCIeX8(X4)
PA-120DC19		AC/DC adapter, DC 19V/6.32A 120W	
PA-220DC24		AC/DC adapter, DC 24V/9.17A 220W	
PA-300DC24		AC/DC adapter, DC 24V/12.5A 300W	
AC-140		8-channel optical isolation input\8-channel high-power relay board	

KMDA-5610/S001

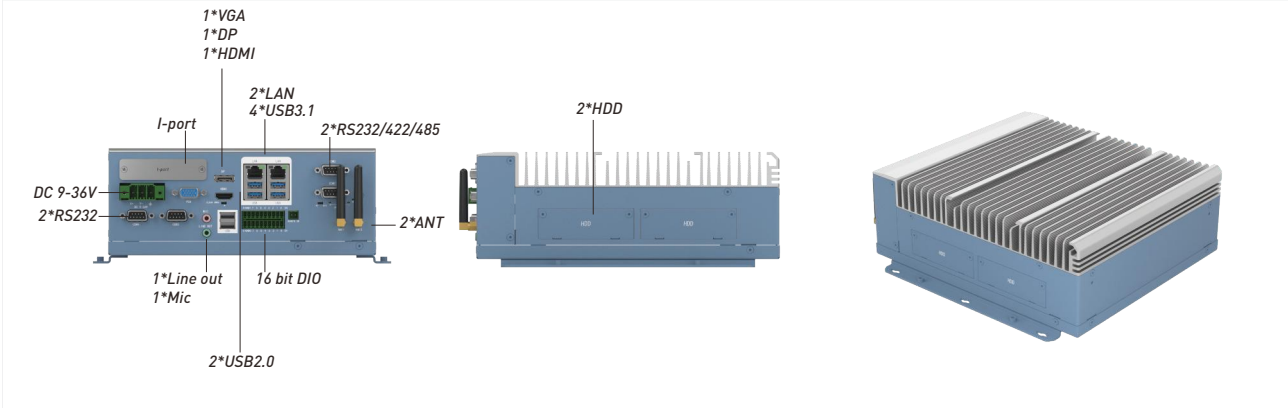
Intel® 9th/8th-Gen Coffee Lake LGA1151 CPU, 2*LAN, 4*USB3.1, 1*VGA, 1*DP, 1*HDMI,2*4K Displays, 1*Msata, 2*SATA3.0,DC 9-36V

Key Specification

- Intel® 9th/8th-Gen Coffee Lake LGA1151 CPU
- Intel® H310 chipset
- 2*DDR4 2400/2666MHz SODIMM RAM, 64GB max.
- 1*DP, 1*HDMI,1*VGA, 2+1 display
- 2*LAN, 4*USB3.1, 2*USB2.0, 4*COM, 16-bit Iso.DIO
- 1*M.2 E-key 2230, Support 10/100/1000Mbps WIFI module
- 2*SATA3.0,1*mSATA with SIM card slot
- Wide voltage power supply 9-36V, with short circuit, overvoltage and overcurrent protection



I/O View



Product Overview

KMDA-5610 is a fanless high-performance box PC, equipped with Intel® 8th/9th generation Coffee lake series processors, H310 chipset, 2*DDR4 2400/2666MHz, and Max. support upto 64GB. Industrial grade product design. It is very suitable for industrial automation, AI edge computing, small smart workstations, multimedia service systems, high-precision machine vision and other applications.

Product Parameters

Processor

CPU	Intel® Coffee lake 9th/8th-Gen Corei7/i5/i3/Pentium/Celeron LGA1151 processor, H310 chipset
RAM	2*260-Pin ,DDR4,2400/2666MHz, Max. 64GB
Graphics	Intel UHD Graphics, Supports DirectX11.1, OpenGL 5.0 and OpenCL 2.1 or PCIe X16,DP:4096*2304@60Hz, VGA:1900*1200@60Hz, HDMI:4096*2160@24Hz (Support 2 independent display, 1 mirror display)
LAN	1*Intel I210AT PCIe ,10/100/1000Mbps ; 1*Intel I219 LM
USB	4* USB3.1, 2*USB2.0 , 1*USB2.0 (build-in)
Display	1*DP+1*HDMI+1*VGA
Audio	1*Line out+1*Mic, Optional Realtek ALC662VD
COM/ Others	2*RS232/422/485, 2*RS232
DIO	16-bit iso DIO 8-bit 2.5KV Iso. DI(High:5-24V,Low:0-1.5V) and 8-bit 2.5KV Iso. DO (200mA)

Storage

Storage	2*2.5" SATA3,HDD,1*full length mSATA, with SIM slot,support 4G
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Others

LED light	1*power LED, 1*hard disk LED, 3*CPU temperature LED
Control switch	1*Power SW,1*Remote switch,1*AT/ATX SW, 1*Clear CMOS SW
WDT	watchdog timeout programmable via software 1 to 255 second
TCPM/TPM	support TPM2.0 (optional)

Expansion

Expansion	1*M.2 E-Key 2230, Support 10/100/1000Mbps WFI module l-port:optional USB2.0/ 16-bitDIO/serial ports/others
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Power Supply

Power & TDP	DC IN 9-36V,3-pin Term. 7.62mm,With short circuit, OVP & OCP, 96W(i7-8700,32G DDR4,128G SSD)
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Mechanical

Structure	Aluminum Chassis, SGCC frame
Color	Pigeon blue + White aluminum grey
Installation	Desktop mounting
Dimension(W*H*D)	230*267.3*92mm
Weight	5.1KG

Environment

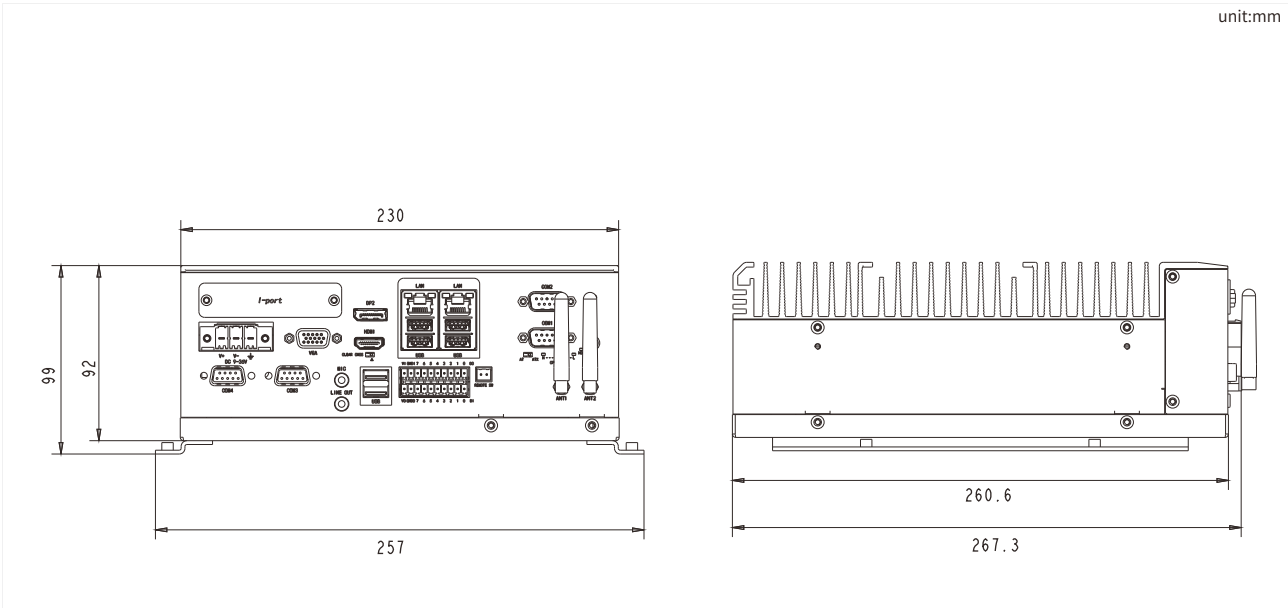
Operating Temp	-20°C~60°C SSD, with air flow, -10°C~55°C HDD, with air flow;
Storage Temp	-40°C~85°C
Storage Humidity	10~90%@40°C, No condensation
Vibration	5 grms/5~500Hz/random/during operation (SSD) 1 grms/5~500Hz/random/during operation (HDD)
Shock	50g peak acceleration(duration 11ms) with SSD; 20g peak acceleration(duration 11ms) with HDD

Certificate/EMC	CE/FCC Class A
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OS

OS	Windows 10 Enterprise & IOT Enterprise,Ubuntu,SuSe,Redhat Enterprise 1,2 (Kernel 4.14) ,Wind River VxWorks 7
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Dimensions



Ordering Information

Model	Processor	Specifications
KMDA-5610/S001	Intel® 9th/8th Coffeelake LGA1151 CPU, H310 PCH	2*DDR4, 2*LAN, 4*USB3.1, 2*USB2.0, 4*COM, M.2 E-Key, 1*VGA, 1*DP,1*HDMI, 1*Line out,1*Mic, 16-bit iso DIO, 2*2.5" SATA, 1*Mini PCIe(mSATA), DC 9-36V
PA-120DC19		AC/DC power adapter,DC19V/6.32A,120W
AC-140		8bit iso input, 8bit power relay output terminal board, DC 12V, the source signal is a 16bit TTL signal GPIO

KMDA-5610/S002

Intel® 9th/8th-Gen Coffee Lake LGA1151 CPU, 3*LAN, 4*COM, 6*USB3.1, 1*VGA, 2*DP, 3*M.2, 1*mSATA, 2*SATA3.0, DC 9-36V

Key Specification

- Intel® 8th /9th Gen Coffee lake LGA1151 CPU
- Intel® Q370 high-performance chipset
- 4*DDR4 2400/2666MHz SODIMM, up to 128GB
- Supports 2*DP dual 4K and 1*VGA, 3 independent displays
- 3*LAN, 6*USB3.1, 2*USB2.0, 4*COM, 16bit Iso. DIO
- 1*Mini PCIe with SIM slot, support 4G and WIFI/BT
- 1*M.2 B-Key 3052 with SIM slot, support 5G module
- 1*M.2 E-key 2230, supports Gigabit WiFi/BT modules
- 2*SATA3.0 SATA bay, supports RAID0, 1 and hot swap design
- 1*mSATA and 1*M.2 M-Key, supports NVMe high speed storage
- Wide power input 9-36V, with short circuit, over voltage and over current protection



Product Overview

KMDA-5610 is a fanless and high-performance box computer with Q370 chipset, powered by Intel® 8th /9th Gen Coffee lake CPU has complete IO function, high-speed storage and RAID storage, wide voltage DC power supply and moderate size. It is suitable for industrial automation, highway tolling, security monitoring, environmental detection, and other industries and fields.

Product Parameters

System

CPU	Intel® Coffee lake 9th/8th-Gen Core™ i9/i7/i5/i3/Pentium/Celeron LGA1151 CPU, Intel® Q370 PCH
RAM	4*260-Pin SODIMM, DDR4 2666/2400MHz, 128GB max.
Graphics	Intel UHD Graphics, Supports DirectX11.1, OpenGL 5.0 and OpenCL 2.1 , DP:4096*2304@60Hz, VGA: 1920*1200@60Hz, DP:4096*2304@60Hz (3 independent display)
LAN	2*Intel I211AT/I210AT, 10-1000M ; 1*Intel I219 LM, 10-1000M, iAMT 13.0, iVpro(i5/i7/i9)
USB	6* USB3.1(5Gbps), 2*USB2.0 , 2*USB2.0 (Build-in)
Display	2*DP+1*VGA
Audio	1*Line out+1*Mic,Optional Realtek ALC662
COM/Others	2*RS232/422/485, 2*RS232; 16 bit Iso. DIO:
DIO	8 bit 2.5KV Iso. DI(H:5-24V, L:0-1.5V), 8 bit 2.5KV Iso. DO(200mA)

Storage

Storage	2*2.5" SATA3; 1*M.2 2280 M-key(X4), NVMe; 1*mSATA(Optional)
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Others

LED	1*PowerLED, 1*HDD LED, 3*CPUoperationLED
Switch	1*Power SW, 1*Remote SW, 1*AT/ATX SW, 1*Clear CMOS SW
WDT	programmable via software 1 to 255 second
TCPM/TPM	Optional TPM2.0

Expansion

Expansion	1*Mini PCIe(SATA3.0/USB2.0+SIM),mSATA/4G LTE; 1*M.2 2230 E-Key(PCIeX1/USB2.0+CNVio), WIFI6/BT5.0; 1*M.2 3052 B-Key(PCIeX1/USB2.0+SIM), 5G NR/4G LTE; 1*M.2 2280 M-Key(PCIeX4),NVMe/PCIe module; I-port: OptionalUSB2.0/ 16 bitDIO/COM/Others
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Power

Power& TDP	DC IN 9-36V , 3-pin Term. 7.62mm,With short circuit, OVP & OCP TDP:60.5W (i7-8700T, 32G DDR4, 128G SSD)
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Mechanical

Structure	Aluminum Chassis, SGCC frame
Color	Pigeon blue + White aluminum grey
Installation	desktop mounting
Dimension (W*D*H)	230*267.3*92mm
Weight	5.02KG

Environment

Operating Temp	-20°C~60°C, SSD, with air flow; -10°C~55°C , HDD, with air flow;
Storage Temp	-40°C~85°C
Storage Humidity	10~95%@40°C, No-condensation

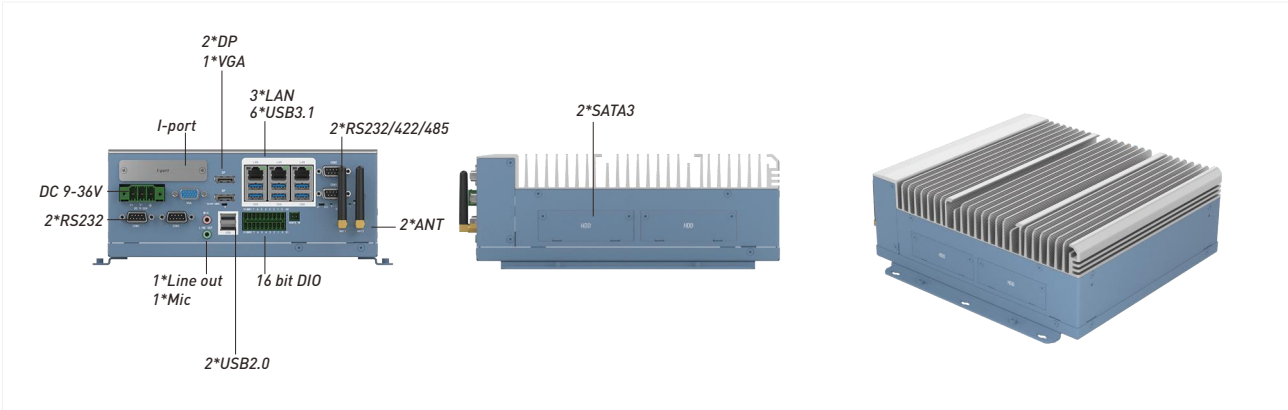
Vibration	5 grms/5~500Hz/random/operation(SSD); 1 grms/5~500Hz/random/operation(HDD)
Shock	50g peak acceleration(duration 11ms,SSD); 20g peak acceleration(duration 11ms,HDD)

Certificate/EMC	CE/FCC Class A
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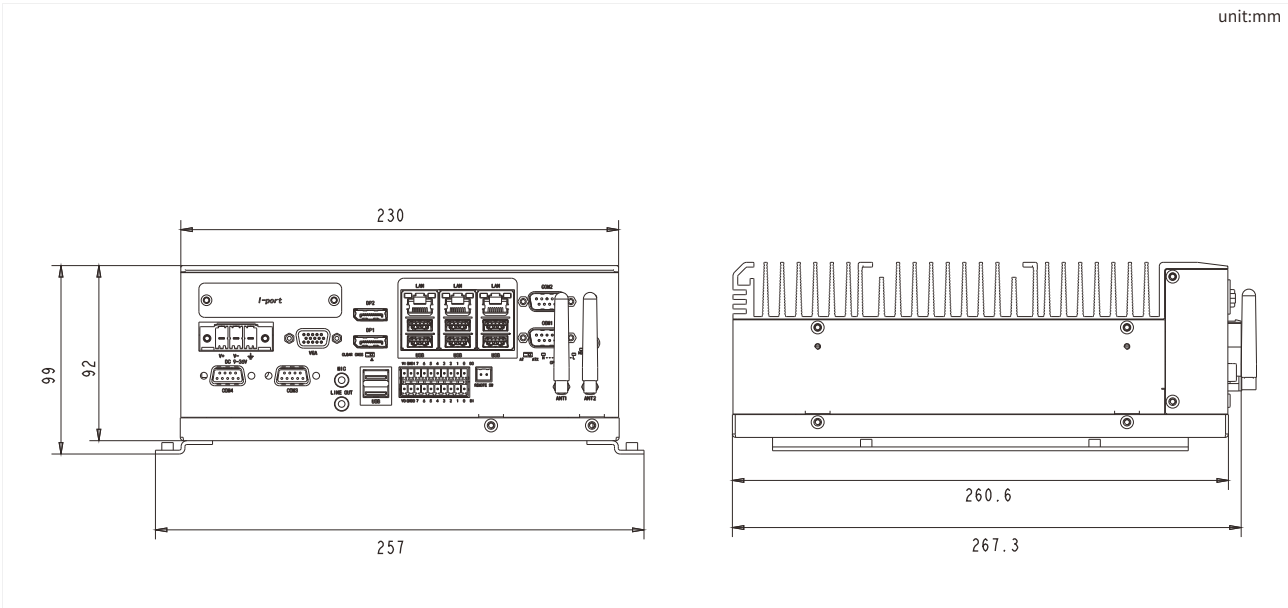
OS

OS	Windows 10 Enterprise & IOT Enterprise (64 bit) (CFL-R) Ubuntu, SuSe, Redhat Enterprise 1,2 (Kernel 4.14) (CFL-R) Wind River VxWorks 7 (CFL-R)
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I/O View



Dimensions



Ordering Information

Model	Processor	Specifications
KMDA-5610/S002	Intel® 9th/8th Coffeelake LGA1151 CPU, Q370 PCH	4*DDR4 SODIMM, 3*LAN, 6*USB3.1, 2*USB2.0, 4*COM, M.2 E-Key, 1*VGA, 2*DP, Audio Line out & Mic, 16bit Iso.DIO, 1*M.2 E-Key, 1*M.2 B-Key, 1*M.2 M-Key, 2*2.5"SATA bay, 1*Mini PCIe(mSATA), 1*I-port, DC 9-36V
PA-120DC19		AC/DC power adapter, DC 19V/6.32A,120W
AC-140		8bit iso input, 8bit power relay output terminal board, DC 12V, the source signal is a 16bit TTL signal GPIO

KMDA-5920/S001

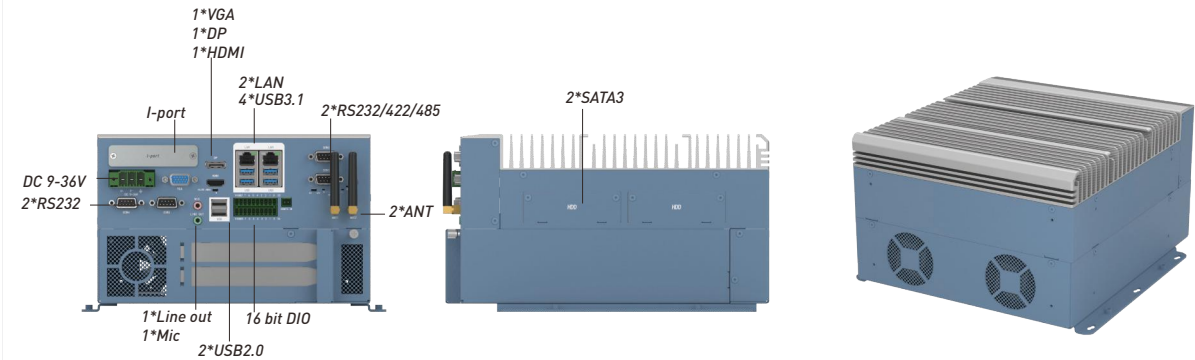
Intel® 9th/8th-Gen Coffee Lake LGA1151 series CPU ,2*LAN, 4*USB3.1, 2*SATA3.0, 1*PCIe X16, 1*PCIeX4, DC 9-36V

Key Specification

- Intel® 8th /9th Gen Coffee lake LGA1151 CPU
- Intel® H310 PCH
- 2*DDR4 2400/2666MHz SODIMM, up to 64GB
- 1*DP, 1*HDMI, 1*VGA, tri-display
- 2*LAN, 4*USB3.1, 2*USB2.0, 16bit Iso. DIO
- 2*RS232/422/485 and 2*RS232
- 1*PCIeX16 and 1*PCIeX16 (X4 signal) dual expansion
- 1*M.2 E-key 2230, supports Gigabit WIFI module
- 2*2.5-inch SATA bay and 1*mSATA
- Wide power input DC 9-36V, with short circuit, over voltage and over current protection



I/O View



Product Overview

KMDA-5920 is a fanless high-performance box computer with H310 chipset, powered by Intel® 8th /9th Gen Coffee lake CPU has complete IO function, dual PCIe extensions, wide voltage DC power supply and moderate size. It is suitable for industrial automation, highway tolling, AI edge computing, security monitoring and environmental detection and other industries and fields.

Product Parameters

Processor

CPU

Intel® Coffee lake 9th/8th-Gen Corei7/i5/i3/Pentium/Celeron LGA1151 processor, H310 chipset

RAM

2*260-Pin ,DDR4,2400/2666MHz, Max. 64GB

Graphics

Intel UHD Graphics, Supports DirectX11.1, OpenGL 5.0 and OpenCL 2.1 or PCIe X16,DP:4096*2304@60Hz, VGA:1900*1200@60Hz, HDMI:4096*2160@24Hz
(Support 2 independent display, 1 mirror display)

LAN

1*Intel I210AT PCIe ,10/100/1000Mbps ;
1*Intel I219 LM

USB

4* USB3.1, 2*USB2.0,1*USB2.0 (build-in)

Display

1*DP+1*HDMI+1*VGA

Audio

1*Line out+1*Mic,Realtek ALC662VD

COM/Others

2*RS232/422/485, 2*RS232,
16-bit iso DIO

DIO

8-bit 2.5KV Iso. DI(High:5-24V,Low:0-1.5V) and
8-bit 2.5KV Iso. DO (200mA)

Storage

2*2.5" SATA3,HDD,1*mSATA, with SIM slot,support 4G

Others

LED

1*power LED, 1*hard disk LED, 3*CPU temperature LED

Switch

1*Power SW,1*Remote switch,1*AT/ATX SW, 1*Clear CMOS SW

WDT

Watchdog timeout programmable via software 1 to 255 second

OS

Windows 10 Enterprise & IOT Enterprise, Ubuntu,SuSe,Redhat Enterprise 1,2 (Kernel 4.14) Wind River VxWorks 7

Expansion

Expansion

1*PCIe3.0 X16(X16),GPU/AI Card<150W<210mm +
1*PCIe2.0X16(X4), AI Card<75W<230mm;
or 1*PCIe3.0 X16(X16)+1*32bit PCI ;
1*M.2 E-Key 2230(PcieX1/USB2.0), WIFI/BT;
1*Mini Pcie(SATA3.0/USB2.0T+SIM),mSATA/4G LTE;
I-port:USB2.0/ 16bit DIO/COM/others

Power Supply

Power&TDP

DC IN 9-36V 3-pin Term. 7.62mm,With short circuit, OVP & OCP
60.48W (I7-8700T CPU/16G DDR4/128G SSD)

Mechanical

Structure

Aluminum Chassis, SGCC frame

Color

Pigeon blue + White aluminum grey

Installation

Desktop mounting

Dimension(W*H*D)

230*273*143mm

Weight

5.9KG

Environment

Operating Temp

-20°C~60°C SSD, with air flow,
-10°C~55°C HDD, with air flow

Storage Temp

-40°C~85°C

Storage Humidity

10~90%@40°C, No condensation

Vibration

5 grms/5~500Hz/random/during operation (SSD)
1 grms/5~500Hz/random/during operation (HDD)

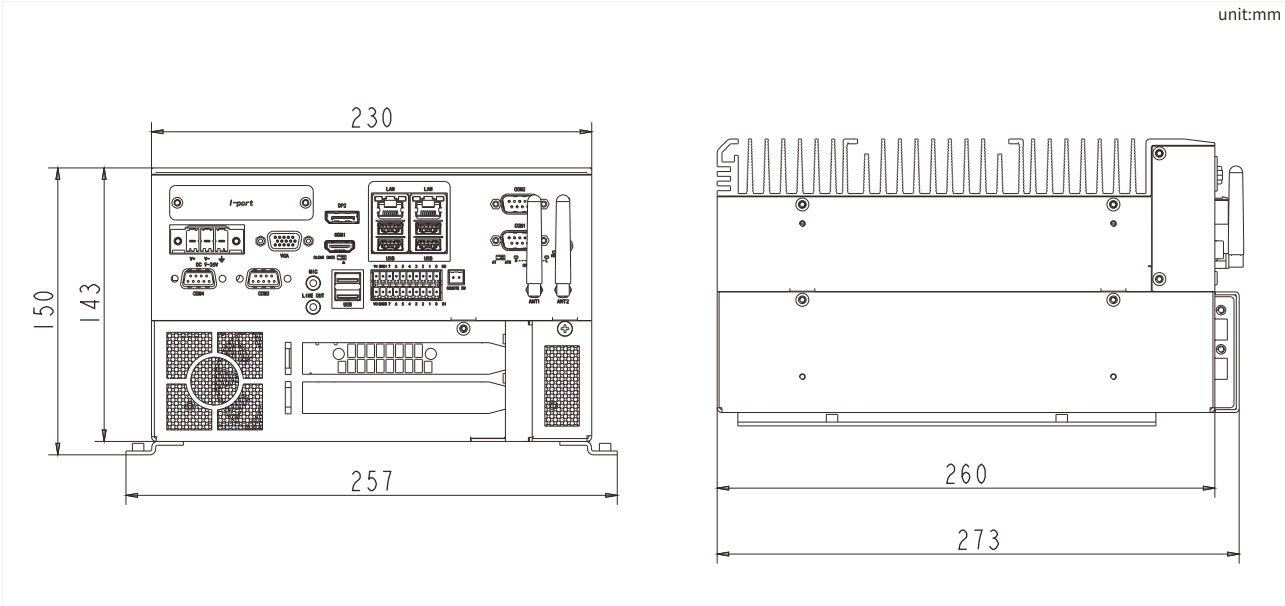
Shock

50g peak acceleration(duration 11ms) with SSD;
20g peak acceleration(duration 11ms) with HDD

Certificate/EMC

CE/FCC Class A

Dimensions



Ordering Information

Model	Processor	Specifications	Expansion
KMDA-5920/S001	Intel® 9th/8th Coffeelake LGA1151 CPU, H310	2*DDR4 SODIMM, 2*LAN, 4*USB3.1, 2*USB2.0, 4*COM, M.2 E-Key, 1*VGA, 1*DP,1*HDMI, Audio Line out & Mic, 16bit Iso.DIO, 2*2.5" SATA bay, 1*Mini PCIe(mSATA), 1*I-port, DC 9-36V	Standard:ECX-255 1*PCIeX16(X16)+1*PCIeX16(X4) Optional:ECX-271 1*PCIeX16(X16)+1*32bit PCI
PA-120DC19		AC/DC power adapter, DC19V/6.32A 120W	
PA-220DC24		AC/DC power adapter,DC 24V/9.17A 220W	
PA-300DC24		AC/DC power adapter,DC24V/12.5A ,300W	
AC-140		8bit iso input, 8bit power relay output terminal board, DC 12V, the source signal is a 16bit TTL signal GPIO	

KMDA-5920/S002

Intel® 8th/9th Coffee Lake LGA1151 CPU, 3*LAN, 4*USB3.1,1*VGA, 2*DP, 4*COM, 16bit Iso.DIO, 2*PCIe,1*Mini PCIe,3*M.2, 2*SATA3.0, DC 9-36V

Key Specification

- Intel® 8th/9th Gen Coffeelake LGA1151 CPU
- Intel® Q370 high-performance chipset
- 4*DDR4 2400/2666MHz SODIMM, up to 128GB
- Supports 2*DP dual 4K and 1*VGA, 3 independent displays
- 3*LAN, 6*USB3.1, 2*USB2.0, 4*COM, 16bit Iso. DIO
- 1*Mini PCIe with SIM slot, support 4G and WIFI/BT
- 1*M.2 B-Key 3052 with SIM slot, support 5G module
- 1*M.2 E-key 2230, supports Gigabit WiFi/BT modules
- 1*PCIeX16 and 1*PCIeX16 (X4 signal) dual expansion
- 2*SATA3.0 SATA bay, supports RAID0, 1 and hot swap design
- Optional 1*mSATA and 1*M.2 M-Key supports NVMe high-speed storage
- Wide power input DC 9-36V, with short circuit, over voltage and over current protection



Product Overview

KMDA-5920 is a fanless and high-performance box computer with Q370 chipset, powered by Intel® 8th /9th Gen Coffee lake CPU has complete IO function, dual PCIe extensions, wide voltage DC power supply and moderate size. It is suitable for industrial automation, highway tolling, AI edge computing, security monitoring and environmental detection and other industries and fields.

Product Parameters

Processor

CPU	Intel® Coffee lake 9th/8th-Gen Corei7/i5/i3/Pentium/Celeron LGA1151 processor, Q370 chipset
RAM	4*260-Pin ,DDR4,2400/2666MHz, Max. 128GB
Graphics	Intel UHD Graphics, Supports DirectX11.1, OpenGL 5.0 and OpenCL 2.1 or PCIe X16,DP:4096*2304@60Hz, VGA1900*1200@60Hz,support 3 independent displays
LAN	2*Intel I210AT PCIe ,10/100/1000Mbps ; 1*Intel I219 LM,support iVpro
USB	6* USB3.1, 2* USB2.0,2*USB2.0 (build-in)
Display	2*DP+1*VGA
Audio	1*Line out+1*Mic, Realtek ALC662VD
COM/Others	2*RS232/422/485, 2*RS232, 16-bit iso DIO
DIO	8-bit 2.5KV Iso. DI(High:5-24V,Low:0-1.5V) and 8-bit 2.5KV Iso. DO (200mA)

Storage

Storage	2*2.5" SATA3, supportRAID0,1, 1*M.2 M-Key,PCIex4 Gen3.0, support NVME storage
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Others

LED	1*power LED, 1*hard disk LED, 3*CPU temperature LED
Switch	1*Power SW,1*Remote switch,1*AT/ATX SW, 1*Clear CMOS SW
WDT	Watchdog timeout programmable via software 1 to 255 second

OS

OS	Windows 10 Enterprise & IOT Enterprise, Ubuntu,SuSe,Redhat Enterprise 1,2 (Kernel 4.14),Wind River VxWorks 7
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Expansion

Expansion	1*PCIe3.0 X16(X16), GPU/AI card<150W<210mm + 1*PCIe3.0X16(X4), AI Card<75W<230mm; or 1*PCIe3.0 X16(X16)+1*32bit PCI; 1*M.2 E-Key 2230(PCIeX1/USB2.0+CNVio), WIFI6/BT5.0; 1*M.2 B-key 3052(PCIeX1/USB2.0+SIM),5G NR/4G LTE; 1*M.2 M-Key 2280(PCIex4), NVME/PCIe module; 1*Mini PCIe(SATA3.0/PCIeX1+SIM),mSATA/4G LTE; I-port: 16bit DIO/2*USB2.0/M.2/Mini PCIe
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Power Supply

Power&	DC IN 9-36V 3-pin Term. 7.62mm,with short circuit protection, over voltage and over current protection, 60.48W (I7-8700T CPU/16G DDR4/128G SSD)
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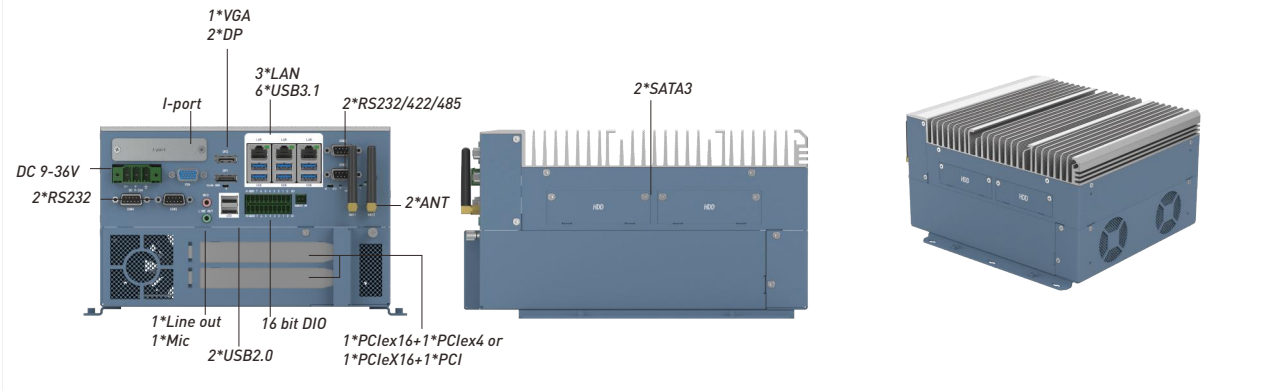
Mechanical

Structure	Aluminum Chassis, SGCC frame
Color	Pigeon blue + White aluminum grey
Installation	Desktop mounting
Dimension(W*H*D)	230*273*143mm
Weight	5.9KG

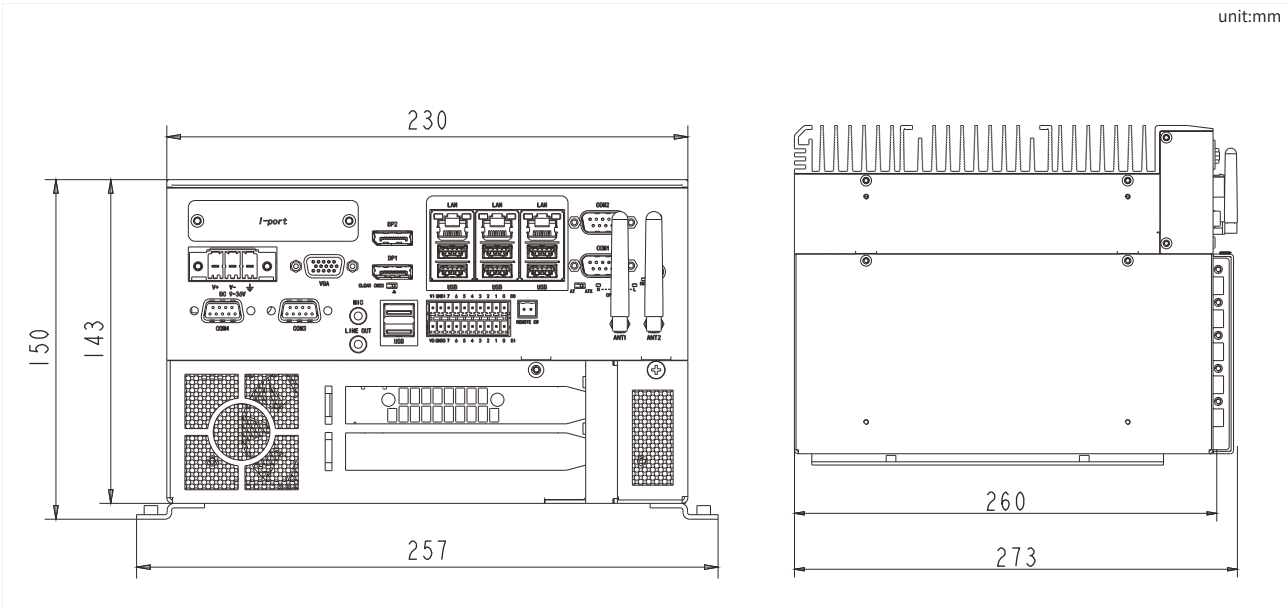
Environment

Operating Temp	-20°C~60°C SSD, with air flow, -10°C~55°C HDD, with air flow;
Storage Temp	-40°C~85°C
Storage Humidity	10~90%@40°C, No condensation
Vibration	5 grms/5~500Hz/random/during operation (SSD) 1 grms/5~500Hz/random/during operation (HDD)
Shock	50g peak acceleration(duration 11ms) with SSD; 20g peak acceleration(duration 11ms) with HDD
Certificate/EMC	CE/FCC Class A

I/O View



Dimensions



Ordering Information

Model	Processor	Specifications	Expansion
KMDA-5920/S002	Intel® 9th/8th Coffeelake LGA1151 CPU, Q370	4*DDR4,3*LAN, 6*USB3.1, 2*USB2.0, 4*COM, 1*Mini PCIe(mSATA), 1*M.2 E-Key, 1*M.2 B-Key, 1*VGA, 2*DP, 1*Line out,1*Mic, 16-bit Iso. DIO,2*2.5" SATA, 1*M.2 2280 M-Key, I-Port, DC 9-36V	Standard:ECX-255 1*PCIeX16(X16)+1*PCIeX16(X4) Optional:ECX-271 1*PCIeX16(X16)+1*32bit PCI
PA-120DC19		AC/DC power adapter, DC19V/6.32A 120W	
PA-220DC24		AC/DC power adapter,DC 24V/9.17A 220W	
PA-300DC24		AC/DC power adapter,DC24V/12.5A ,300W	
AC-140		8-channel isolated input and 8-channel power relay output terminal board,DC 12V,source signal: 16-bit TTL GPIO	

KMDA-5921/S001

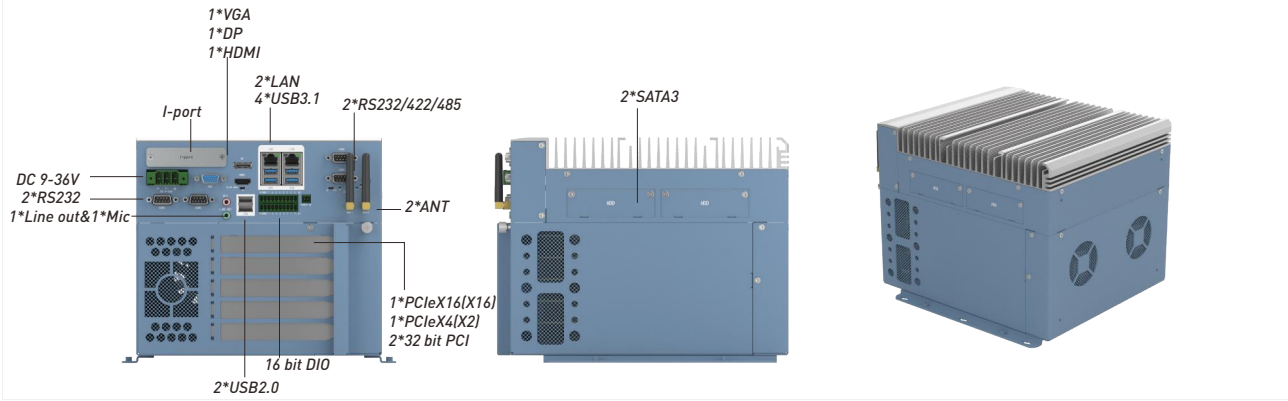
Intel® 8th/9th Gen Coffee Lake LGA1151 CPU, 2*LAN, 4*USB3.1, 1*VGA, 1*DP, 1*HDMI, 4*COM, 16bit Iso.DIO, 2*PCIe+2*PCI,DC 9-36V

Key Specification

- Intel® 8th/9th Gen Coffee lake LGA1151 CPU
- Intel® H310 PCH
- 2*DDR4 2400/2666MHz SODIMM, up to 64GB
- 1*DP, 1*HDMI, 1*VGA, tri-display
- 2*LAN, 4*USB3.1, 2*USB2.0, 16bit Iso.DIO
- 2*RS232/422/485 and 2*RS232
- 1*PCIeX16+1*PCIeX4 (X2 signal)+2*PCI Quad expansion
- 1*M.2 E-key 2230, supports Gigabit WIFI module
- 2*2.5-inch SATA bay and 1*mSATA
- Wide power input DC 9-36V, with short circuit, over voltage and over current protection



I/O View



Product Overview

KMDA-5921 is a fanless high-performance box computer with H310 chipset, powered by Intel® 8th /9th Gen Coffee lake CPU has complete IO function, dual PCIe plus dual PCI quad expansions, wide voltage DC power supply and moderate size. It is suitable for industrial automation, highway tolling, AI edge computing, security monitoring and environmental detection and other industries and fields.

Product Parameters

Processor

CPU	Intel® Coffee lake 9th/8th-Gen Corei7/i5/i3/Pentium/Celeron LGA1151 processor, H310 chipset
RAM	2*260-Pin ,DDR4,2400/2666MHz, Max. 64GB
Graphics	Intel UHD Graphics, Supports DirectX11.1, OpenGL 5.0 and OpenCL 2.1 or PCIe X16,DP:4096*2304@60Hz, VGA:1900*1200@60Hz,HDMI:4096*2160@24Hz (Support 2 independent display, 1 mirror display)
LAN	1*Intel I211AT,10-1000M ; 1*Intel I219 LM,WOL
USB	4* USB3.1, 2*USB2.0
Display	1*DP+1*HDMI+1*VGA
Audio	1*Line out+1*Mic, Optional Realtek ALC662VD
Serial port /Others	2*RS232/422/485, 2*RS232, 16-bit iso DIO
DIO	8-bit 2.5KV Iso. DI(High:5-24V,Low:0-1.5V) and 8-bit 2.5KV Iso. DO (200mA)

Storage

Storage	2*2.5" SATA3,HDD; 1*MiniPCIe(SATA3/USB2.0),mSATA
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Others

LED	1*power LED, 1*HDD LED, 3*CPU temperature LED
Switch	1*Power SW,1*Remote SW,1*AT/ATX SW, 1*Clear CMOS SW
WDT	Watchdog timeout programmable via software 1 to 255 second
TCPM/TPM	support TPM2.0 (optional)

OS

OS	Windows 10 Enterprise & IOT Enterprise, Ubuntu,SuSe,Redhat Enterprise 1.2 (Kernel 4.14), Wind River VxWorks 7
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Expansion

Expansion	1*PCIe3.0 X16(X16)+1*PCIe2.0 X4 (X2)+ 2*32-bit PCI; 1*M.2 E-Key 2230, WIFI/BT5.0; 1*Mini PCIe(SATA3.0/USB2.0+SIM); I-port: USB2.0/ 16bit DIO/COM/others
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Power Supply

Power& TDP	DC IN 9-36V 3-pin Term. 7.62mm,with short circuit protection, over voltage and over current protection, 60.5W(I7-8700T,32G DDR4,128G SSD)
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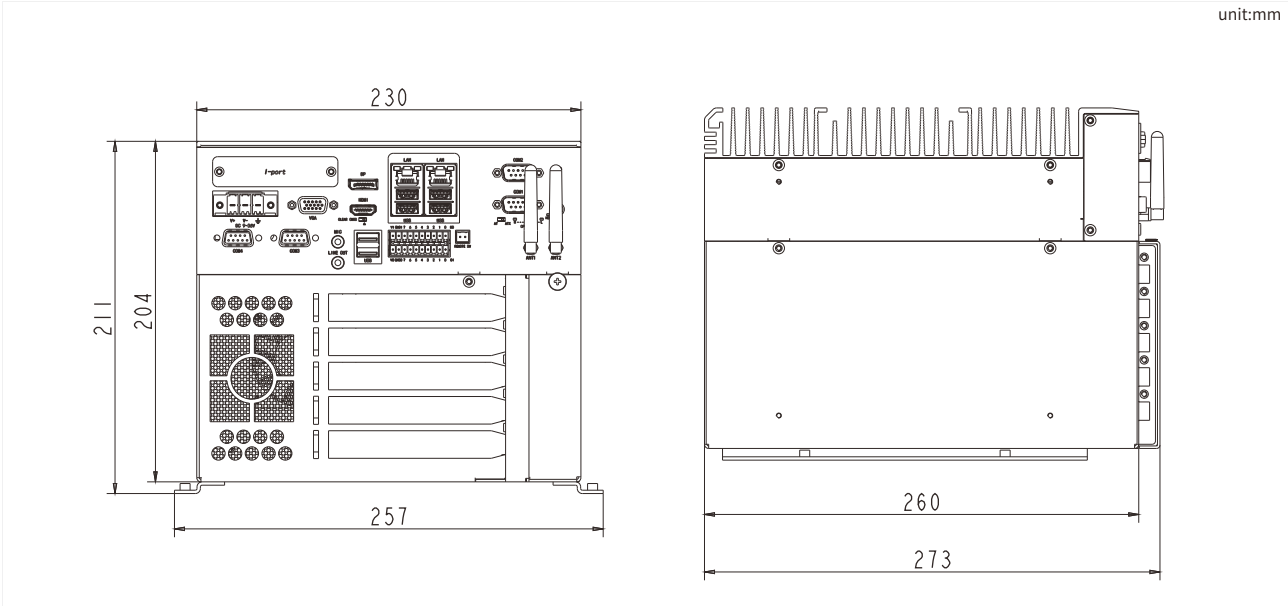
Mechanical

Structure	Aluminum Chassis, SGCC frame
Color	Pigeon blue + White aluminum grey
Installation	Desktop mounting
Dimension(W*H*D)	230*273*204mm
Weight	7.25KG

Environment

Operating Temp	-20°C~60°C SSD, with air flow, -10°C~55°C HDD, with air flow;
Storage Temp	-40°C~85°C
Storage Humidity	10~90%@40°C, No condensation
Vibration	5 grms/5~500Hz/random/during operation (SSD) 1 grms/5~500Hz/random/during operation (HDD)
Shock	50g peak acceleration(duration 11ms) with SSD; 20g peak acceleration(duration 11ms) with HDD
Certificate/EMC	CE/FCC Class A

Dimensions



Ordering Information

Model	Processor	Specifications	Expansion
KMDA-5921/S001	Intel® 9th/8th Coffeelake LGA1151 CPU, H310 PCH	2*DDR4 SODIMM,2*LAN, 4*USB3.1, 2*USB2.0,4*COM, 1*Mini PCIe, M.2 E-Key, 1*VGA, 1*DP,1*HDMI, 1*Line out,1*Mic, 16-bit iso DIO,2*2.5" SATA, DC 9-36V	Standard: ECX-266 1*PCIeX16 (X16)+1*PCIeX4 (X2)+2*32bit PCI
PA-120DC19		AC/DC adapter, DC19V/6.32A 120W	
PA-220DC24		AC/DC adapter, DC 24V/9.17A 220W	
PA-300DC24		AC/DC power adapter,DC24V@12.5A ,300W	
AC-140		8bit isolating input and 8bit power relay output terminal board, DC 12V, signal is 16bit TTL GPIO	

KMDA-5921/S002

Intel®9th/8th-Gen Coffee Lake LGA1151 CPU, 3*LAN, 6*USB3.1, 2*easy-swappable SATA3, 4*PCIe slots, DC 9-36V

Key Specification

- Intel® 8th/9th Gen Coffee lake LGA1151 CPU
- Intel® Q370 high-performance chipset
- 4*DDR4 2400/2666MHz SODIMM, up to 128GB
- Supports 2*DP dual 4K and 1*VGA, 3 independent displays
- 3*LAN, 6*USB3.1, 2*USB2.0, 4*COM, 16bit Iso. DIO
- 1*Mini PCIe with SIM slot, support 4G and WIFI/BT
- 1*M.2 B-Key 3052 with SIM slot, support 5G module
- 1*M.2 E-key 2230, supports Gigabit WiFi/BT modules
- 2*PCIeX16 (X8 signal)+2*PCIeX16 (X4 signal) Quad expansion
- 2*SATA3.0 SATA bay, supports RAID0, 1 and hot swap design
- Optional 1*mSATA and 1*M.2 M-Key supports NVMe high-speed storage
- Wide power input DC 9-36V, with short circuit, over voltage and over current protection



Product Overview

KMDA-5921 is a fanless and high-performance box computer with Q370 chipset, powered by Intel® 8th /9th Gen Coffee lake CPU has complete IO function, quad PCIe extensions, wide voltage DC power supply and moderate size. It is suitable for industrial automation, highway tolling, AI edge computing, security monitoring and environmental detection and other industries and fields.

Product Parameters

Processor

CPU	Intel® Coffee lake 9th/8th-Gen Corei7/i5/i3/Pentium/Celeron LGA1151 processor, Q370 chipset
RAM	4*260-Pin ,DDR4,2400/2666MHz, Max. 128GB
Graphics	Intel UHD Graphics, Supports DirectX11.1, OpenGL 5.0 and OpenCL DP:4096*2304@60Hz, VGA:1900*1200@60Hz,
LAN	2*Intel I211AT/210AT or 1*Intel I211AT/I210AT+1*I219LM,10-1000M,iAMT13.0,iVpro;
USB	6* USB3.1, 2*USB2.0
Display	2*DP+1*VGA
Audio	1*Line out+1*Mic, Realtek ALC662VD
COM/Others	2*RS232/422/485, 2*RS232

Storage

Storage	2*2.5" SATA3, RAID0,1, 1*M.2 M-Key(PCIe3.0x4), NVME
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Others

LED	1*power LED, 1*H LED, 3*CPU temperature LED
Switch	1*Power SW,1*Remote switch,1*AT/ATX SW, 1*Clear CMOS SW
WDT	Watchdog timeout programmable via software 1 to 255 second
TCPPM/TPM	Optional TPM2.0

OS

OS	Windows 10 Enterprise & IOT Enterprise, Ubuntu,SuSe,Redhat Enterprise 1,2 (Kernel 4.14), Wind River VxWorks 7
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Expansion

Expansion	2*PCIe3.0X16(X8), GPU/AI Card<150W<210mm+ 2*PCIe3.0X16(X4), AI Card<75W<230mm; or 1*PCIe3.0 X16(X16)+1*PCIe3.0X16(X4)+2*32bit PCI; 1*M.2 E-Key 2230(PCIeX1/USB2.0+CNVio),WIFI6/BT5.0; 1*M.2 B-key 3052(PCIeX1/USB2.0+SIM),5G NR/4G LTE; 1*M.2 M-Key 2280(PCIex4), NVME/PCIe module; 1*Mini PCIe(SATA3.0/PCIeX1+SIM), mSATA/4G LTE; I-port: USB2.0/ 16 bit DIO/COM/others
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Power Supply

Power&	DC IN 9-36V ,with short circuit protection, over voltage and over current protection
TDP	60.5W(I7-8700T,32G DDR4,128G SSD)

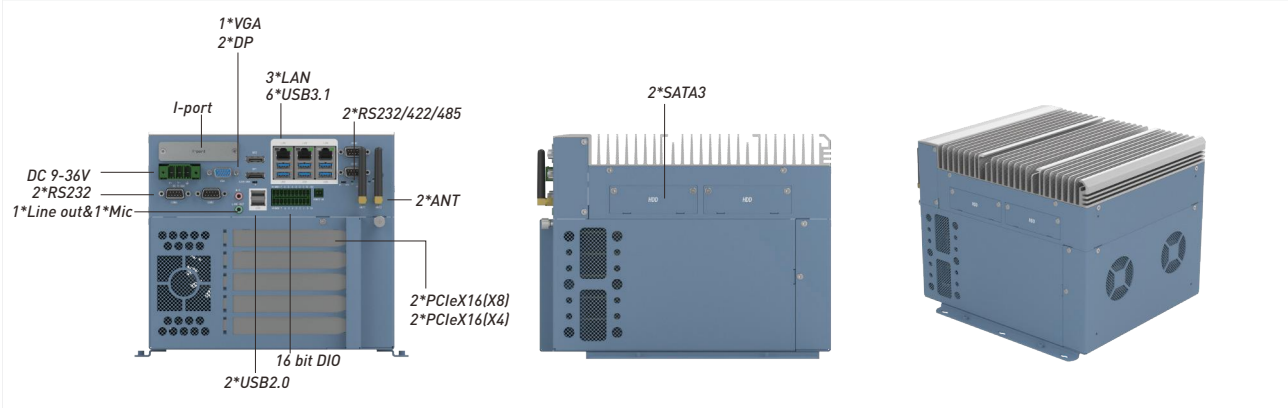
Mechanical

Structure	Aluminum Chassis, SGCC frame
Color	Pigeon blue + White aluminum grey
Installation	Desktop mounting
Dimension(W*H*D)	230*273*204mm
Weight	7.25KG

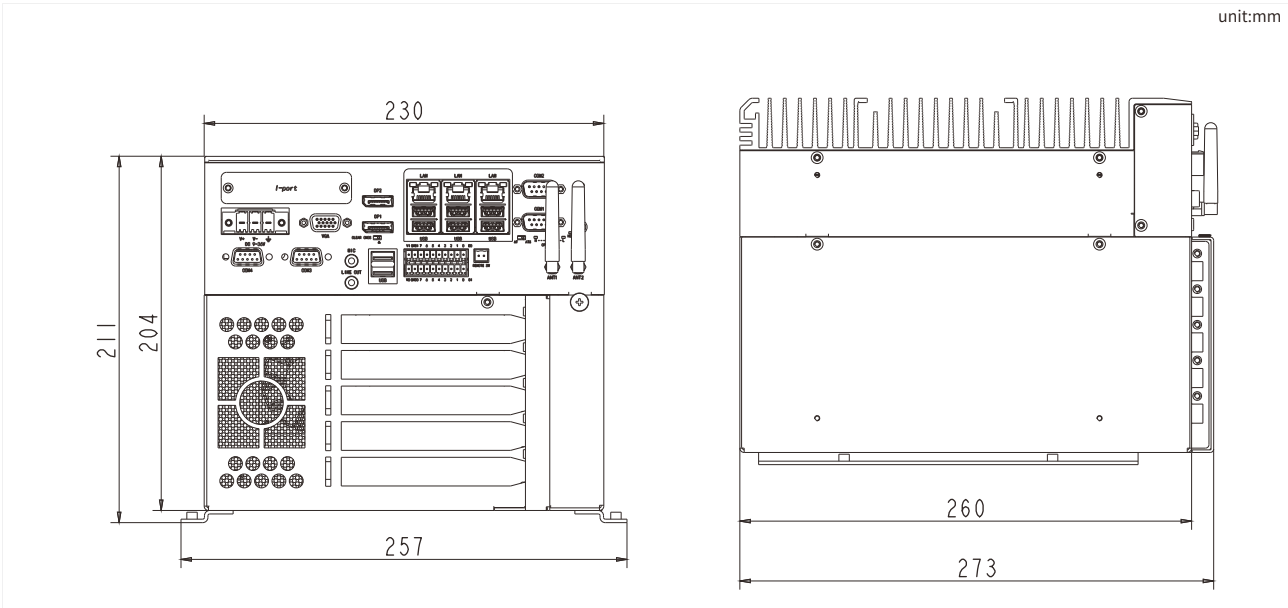
Environment

Operating Temp	-20°C~-60°C SSD, with air flow, -10°C~-55°C HDD, with air flow;
Storage Temp	-40°C~85°C
Storage Humidity	10~90%@40°C, No condensation
Vibration	5 grms/5~500Hz/random/during operation (SSD) 1 grms/5~500Hz/random/during operation (HDD)
Shock	50g peak acceleration(duration 11ms) with SSD; 20g peak acceleration(duration 11ms) with HDD
Certificate/EMC	CE/FCC Class A

I/O View



Dimensions



Ordering Information

Model	Processor	Specifications	Expansion
KMDA-5921/S002	Coffee lake-R 9th/8th-Gen LGA1151 CPU, Q370 PCH	4*DDR4 SODIMM, 3*LAN, 6*USB3.1, 2*USB2.0, 4*COM, 1*VGA, 2*DP, Audio Line out & Mic, 16bit Iso.DIO, 1*M.2 E-Key, 1*M.2 B-Key, 1*M.2 M-Key, 2*2.5"SATA bay, 1*Mini PCIe(mSATA), 1*I-port, DC 9-36V	Standard:ECX-254 2*PCIeX16(X8)+2*PCIeX16(X4) Optional:ECX-275 1*PCIeX16(X16)+1*PCIeX16(X4)+ 2*32bit PCI
PA-120DC19		AC/DC power adapter, DC19V/6.32A 120W	
PA-220DC24		AC/DC power adapter, DC24V/9.17A 220W	
PA-300DC24		AC/DC power adapter,DC24V/12.5A ,300W	
AC-140		8-channel isolated input and 8-channel power relay output terminal board,DC 12V,source signal: 16-bit TTL GPIO	

KMDA-6610

Intel® 10th Comet Lake LGA1200 CPU, 2*LAN, 4*USB3.2, 1*VGA, 1*DP, 1*HDMI, 4*COM, 8bit DIO, 1*mSATA, 1*Mini PCIe, 2*SATA3.0, DC 9-36V

Key Specification

- Intel® 10th Gen Comet lake LGA1200 CPU
- Intel® H420E Chipset
- 2*DDR4 2933MHz SODIMM, up to 64GB
- 1*DP, 1*HDMI and 1*VGA three display ports, supporting two independent displays
- 2*LAN, 4*USB3.2, 2*USB2.0, 8bit DIO, 1*MIC+1*LINE OUT, 1*PS/2
- 2*RS232/422/485 and 2*RS232
- 1*Mini-PCIe full size with SIM card slot, supporting 4G LTE module
- 2*2.5-inch SATA bay and 1*mSATA
- Wide power input 9-36V, with short circuit, over voltage and over current protection



Product Overview

KMDA-6610 is a fanless high-performance box computer with H420E chipset, powered by Intel® 10th Gen Comet lake CPU has complete IO function, wide voltage DC power supply and moderate size. It is suitable for industrial automation, highway tolling, security monitoring and environmental detection and other industries and fields.

Product Parameters

System

CPU	Intel® Comet lake 10th Gen Core™ i9/i7/i5/i3/Pentium/Celeron LGA1200 CPU, Intel® H420E PCH
RAM	2*260-Pin, DDR4,2933MHz, 64GB max.
Graphics	Intel® UHD Graphics, Supports DirectX 12, OpenGL 4.5, DP:4096*2304@60Hz, HDMI:4096*2160@30Hz, VGA:1920*1200@60Hz, 2 independent display
LAN	1*Intel I226V, 2.5G(PCIeX1),10M-2.5G,WOL; 1*Intel I219 LM(PCIeX1), 10-1000M, WOL
USB	4* USB3.2 Gen1, 2*USB2.0 , 2*USB2.0 (Build-in)
Display	1*DP+1*HDMI+1*VGA
Audio	1*Line out+1*MIC,Realtek ALC897
COM/Others	2*RS232/422/485, 2*RS232;
DIO	8 bit non Iso. DIO (2*5pin); 16 bit non Iso. DIO(2*10pin)

Storage

Storage	2*2.5" SATA3.0; 1*mSATA(SATA3.0+USB2.0)
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Others

LED	1*PowerLED, 1*HDD LED, 3*CPUoperationLED
Switch	1*Power SW, 1*Remote SW, 1*AT/ATX SW, 1*Clear CMOS SW
WDT	programmable via software 1 to 255 second
TCPPM/TPM	Optional TPM

Expansion

Expansion	1*Mini-PCIe(PCIeX1/USB2.0+SIM),4G LTE/PCIe module; I-port: 16bit DIO/USB2.0/LPT/Mini PCIe
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Power

Power&TDP	DC IN 9-36V , short circuit protection, OVP&OCP TDP:59.52W(i5-10500 CPU/4G DDR4/256G SSD)
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Mechanical

Structure	Aluminum Chassis, SGCC frame
Color	Pigeon blue + White aluminum grey
Installation	desktop mounting
Dimension (W*H*D)	230*267.3*92mm
Weight	5.12KG

Environment

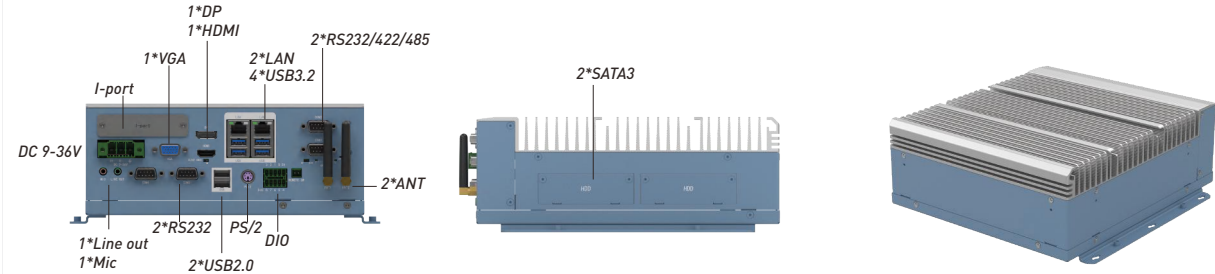
Operating Temp	-20°C~60°C SSD, with air flow; -10°C~55°C HDD, with air flow;
Storage Temp	-40°C~85°C
Storage Humidity	10~95%@40°C, No-condensation
Vibration	5 grms/5~500Hz/random/operation(SSD); 1 grms/5~500Hz/random/operation(HDD)
Shock	50g peak acceleration(duration 11ms,SSD); 20g peak acceleration(duration 11ms,HDD)

Certificate/EMC CE/FCC Class A

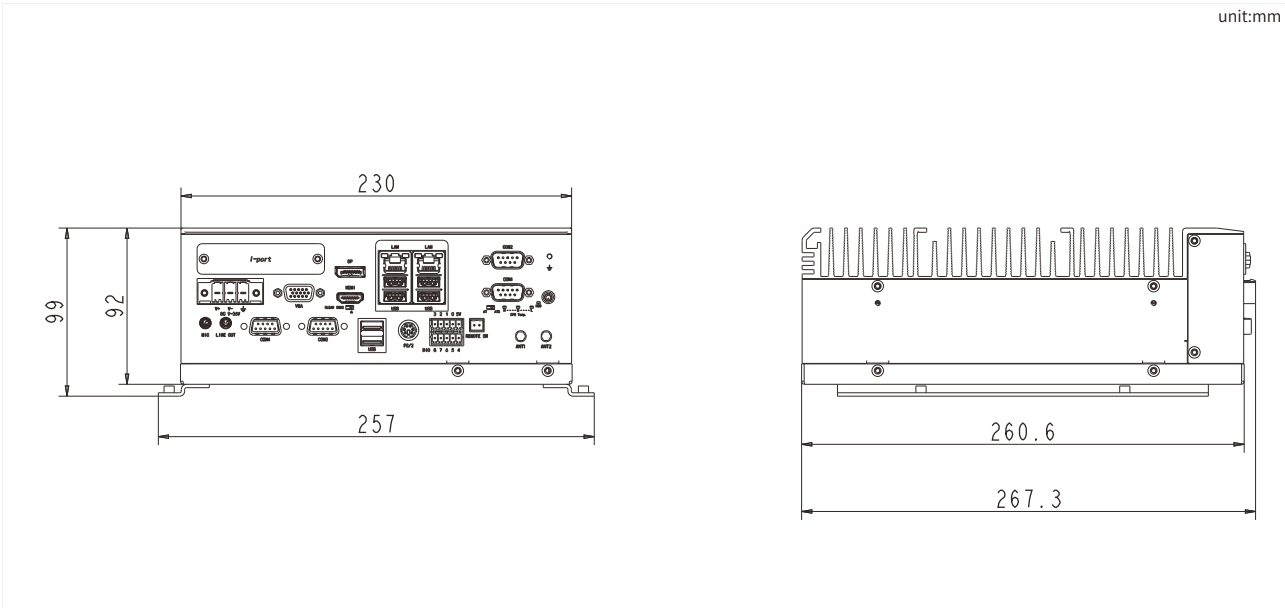
OS

OS	Windows11, Windows 10 IoT Enterprise (64-bit), Windows Server 2019, Ubuntu, SUSE, Redhat Enterprise, Wind River Linux, Yocto Project (64-bit), Wind River VxWorks 7
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I/O View



Dimensions



Ordering Information

Model	Processor	Specifications
KMDA-6610/S001	Intel® 10th Cometlake LGA1200 CPU, H420E PCH	2*DDR4 SODIMM, 2*LAN, 4*USB3.2, 2*USB2.0, 1*PS/2, 4*COM, 1*VGA, 1*DP,1*HDMI, Audio Line out & Mic, 8bit DIO, 1*I-Port, 2*2.5"SATA bay, 1*mSATA, 1*Mini PCIe, DC 9-36V
PA-120DC19		AC/DC power adapter, DC 19V/6.32A,120W

KMDA-6920

Intel® 10th Comet Lake LGA1200 CPU, 2*LAN, 4*USB3.2, 1*VGA, 1*DP, 1*HDMI, 4*COM, 8bit DIO, 1*mSATA, 1*Mini PCIe, 2*PCIe, 2*SATA3.0, DC 9-36V

Key Specification

- Intel® 10th Gen Comet lake LGA1200 CPU
- Intel® H420E PCH
- 2*DDR4 2933MHz SODIMM, up to 64GB
- 1*DP, 1*HDMI and 1*VGA three display ports, supporting two independent displays
- 2*LAN, 4*USB3.2, 2*USB2.0, 8bit DIO, 1*MIC+1*LINE OUT, 1*PS/2
- 2*RS232/422/485 and 2*RS232
- 1*Mini-PCIe full size with SIM card slot, supporting 4G LTE module
- 1*PCIeX16 and 1*PCIeX16 (X4 signal) dual expansion
- 2*2.5-inch SATA bay and 1*mSATA
- Wide power input DC 9-36V, with short circuit, over voltage and over current protection



Product Overview

KMDA-6920 is a fanless high-performance box computer with H420E chipset, powered by Intel® 10th Gen Comet lake CPU has complete IO function, dual PCIe extensions, wide voltage DC power supply and moderate size. It is suitable for industrial automation, highway tolling, AI edge computing, security monitoring and environmental detection and other industries and fields.

Product Parameters

System

CPU	Intel® Comet lake 10th Gen Core™ i9/i7/i5/i3/Pentium/Celeron LGA1200 CPU, Intel® H420E PCH
RAM	2*260-Pin, DDR4,2933MHz, 64GB max.
Graphics	Intel® UHD Graphics, Supports DirectX 12, OpenGL 4.5, DP:4096*2304@60Hz, HDMI:4096*2160@30Hz, VGA:1920*1200@60Hz, 2 independent display

LAN	1*Intel I226V, 2.5G(PcieX1),10M-2.5G,WOL; 1*Intel I219 LM(PcieX1), 10-1000M, WOL
USB	4* USB3.2 Gen1, 2*USB2.0 , 2*USB2.0 (Build-in)
Display	1*DP+1*HDMI+1*VGA
Audio	1*Line out+1*MIC,Realtek ALC897
COM/Others	2*RS232/422/485, 2*RS232;
DIO	8bit non-isolated DIO, TTL , programmable 16 bit non-isolated DIO(2*10 pin)

Storage

Storage	2*2.5" SATA3.0; 1*mSATA(SATA3.0+USB2.0)
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Others

LED	1*PowerLED, 1*HDD LED, 3*CPUoperationLED
Switch	1*Power SW, 1*Remote SW, 1*AT/ATX SW, 1*Clear CMOS SW
WDT	programmable via software 1 to 255 second
TCPM/TPM	Optional TPM

Expansion

Expansion	1*PCIe3.0 X16(X16),GPU/AI Card<150W<210mm+ 1*PCIe3.0X16(X4) ,AI Card<75W<230mm; or 1*PCIe3.0 X16(X16)+1*32bit PCI; 1*Mini-PCIe(PcieX1/USB2.0+SIM),4G LTE/PCIe module; I-port: 16bit DIO/USB2.0/LPT/Mini PCIe
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Power

Power& TDP	DC IN 9-36V, short circuit protection, OVP&OCP TDP : 57.12W(i7-10700TE CPU/4G DDR4/256G SSD)
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Mechanical

Structure	Aluminum Chassis, SGCC frame
Color	Pigeon blue + White aluminum grey
Installation	desktop mounting
Dimension (W*H*D)	230*273*143mm
Weight	5.899KG

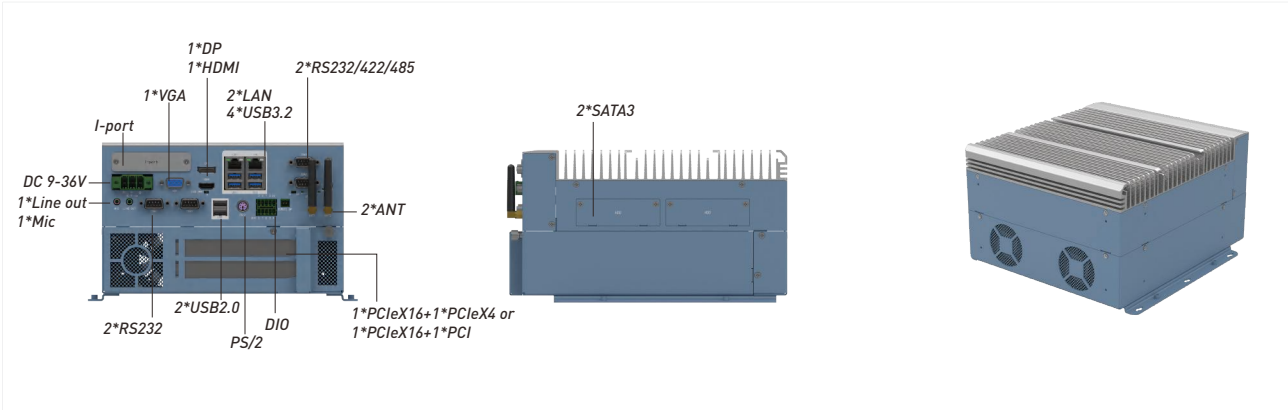
Environment

Operating Temp	-20℃~60℃ SSD, with air flow; -10℃~55℃ HDD, with air flow;
Storage Temp	-40℃~85℃
Storage Humidity	10~95%@40℃, No-condensation
Vibration	5 grms/5~500Hz/random/operation(SSD); 1 grms/5~500Hz/random/operation(HDD)
Shock	50g peak acceleration(duration 11ms,SSD); 20g peak acceleration(duration 11ms,HDD)
Certificate/EMC	CE/FCC Class A

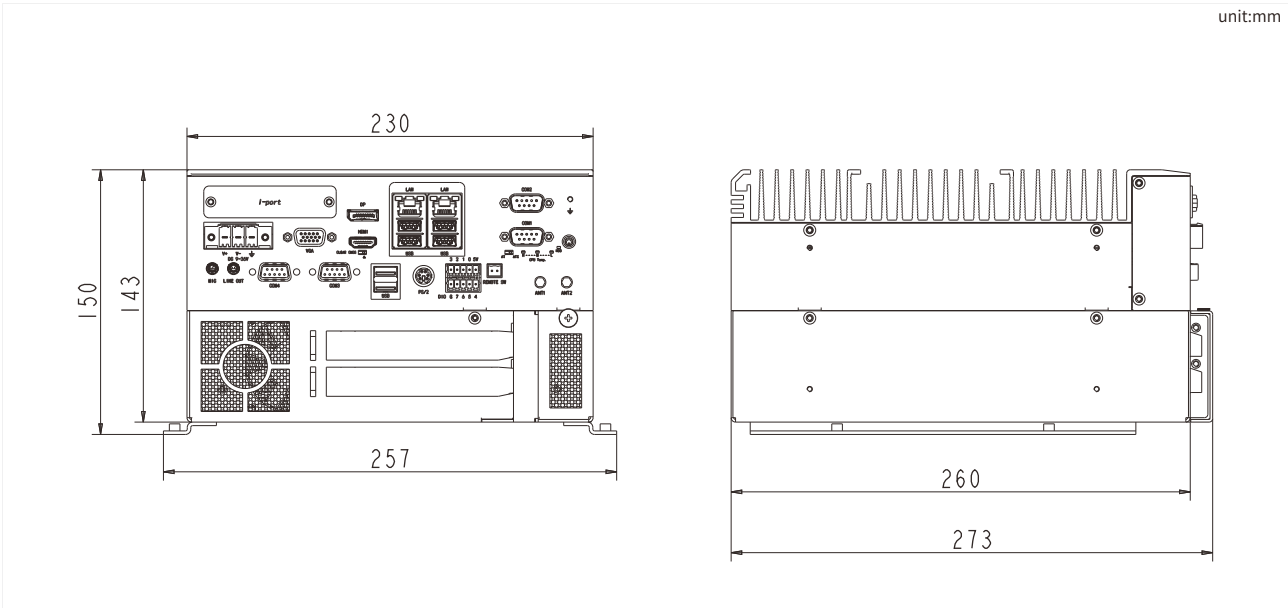
OS

OS	Windows11, Windows 10 IoT Enterprise (64-bit), Windows Server 2019, Ubuntu, SUSE, Redhat Enterprise, Wind River Linux, Yocto Project (64-bit), Wind River VxWorks 7
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I/O View



Dimensions



Ordering Information

Model	Processor	Specifications	Expansion
KMDA-6920/S001	Intel® 10th Cometlake LGA1200 CPU, H420E PCH	2*DDR4 SODIMM, 2*LAN, 4*USB3.2, 2*USB2.0, 1*PS/2, 4*COM, 1*VGA, 1*DP, 1*HDMI, Audio Line out & Mic, 8bit DIO, 1*I-Port, 2*2.5" SATA bay, 1*mSATA, 1*Mini PCIe, DC 9-36V	Standard:ECX-255 1*PCIeX16(X16)+1*PCIeX16(X4) Optional:ECX-271 1*PCIeX16(X16)+1*32bit PCI
PA-120DC19		AC/DC power adapter, DC 19V/6.32A,120W	
PA-220DC24		AC/DC power adapter, DC 24V/9.17A, 220W	
PA-300DC24		AC/DC power adapter, DC 24V/12.5A, 300W	

KMDA-6921

Intel® 10th Comet Lake LGA1200 CPU, 2*LAN, 4*USB3.2, 1*VGA, 1*DP, 1*HDMI, 4*COM, 8bit DIO, 1*mSATA, 1*Mini PCIe, 2*PCIe+2*PCI, 2*SATA, DC 9-36V

Key Specification

- Intel® 10th Gen Comet lake LGA1200 CPU
- Intel® H420E PCH
- 2*DDR4 2933MHz SODIMM, up to 64GB
- 1*DP, 1*HDMI and 1*VGA three display ports, supporting two independent displays
- 2*LAN, 4*USB3.2, 2*USB2.0, 8bit DIO, 1*MIC+1*LINE OUT, 1*PS/2
- 2*RS232/422/485 and 2*RS232
- 1*Mini-PCIe full size with SIM card slot, supporting 4G LTE module
- 1*PCIeX16+1*PCIeX4 (X2 signal)+2*PCI Quad expansion
- 2*2.5-inch SATA bay and 1*mSATA
- Wide power input DC 9-36V, with short circuit, over voltage and over current protection



Product Overview

KMDA-6921 is a fanless high-performance box computer with H420E chipset, powered by Intel® 10th Gen Comet lake CPU has complete IO function, dual PCIe plus dual PCI quad expansions, wide voltage DC power supply and moderate size. It is suitable for industrial automation, highway tolling, AI edge computing, security monitoring and environmental detection and other industries and fields.

Product Parameters

System

CPU	Intel® Comet lake 10th Gen Core™ i9/i7/i5/i3/Pentium/Celeron LGA1200 CPU, Intel® H420E PCH
RAM	2*260-Pin, DDR4,2933MHz, 64GB max.
Graphics	Intel® UHD Graphics, Supports DirectX 12, OpenGL 4.5, DP:4096*2304@60Hz, HDMI:4096*2160@30Hz, VGA:1920*1200@60Hz, 2 independent display
LAN	1*Intel I226V, 10M-2.5G,WOL; 1*Intel I219 LM, 10-1000M, WOL
USB	4* USB3.2 Gen1, 2*USB2.0 , 2*USB2.0 (Build-in)
Display	1*DP+1*HDMI+1*VGA
Audio	1*Line out+1*MIC,Realtek ALC897
COM/Others	2*RS232/422/485, 2*RS232;
DIO	8 bitnon Iso.DIO (2*5pin); 16 bitnon Iso.DIO(2*10)

Storage

Storage	2*2.5" SATA3.0; 1*mSATA(SATA3.0+USB2.0)
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Others

LED	1*PowerLED, 1*HDD LED, 3*CPUoperationLED
Switch	1*Power SW, 1*Remote SW, 1*AT/ATX SW, 1*Clear CMOS SW
WDT	programmable via software 1 to 255 second
TCPPM/TPM	Optional TPM

Expansion

Expansion	1*PCIe3.0 X16(X16),GPU/AI Card<150W<210mm + 1*PCIe3.0X4(X2),Function card<230mm + 2*32bit PCI; 1*Mini-PCIe(PCIeX1/USB2.0+SIM),4G LTE/PCIe module, I-port: 16bit DIO/USB2.0/LPT/Mini PCIe
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Power

Power& TDP	DC IN 9-36V, short circuit protection, OVP&OCP TDP: 60W(i7-10700K CPU/4G DDR4/256G SSD)
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Mechanical

Structure	Aluminum Chassis, SGCC frame
Color	Pigeon blue + White aluminum grey
Installation	desktop mounting
Dimension(W*H*D)	230*273*204mm
Weight	6.837KG

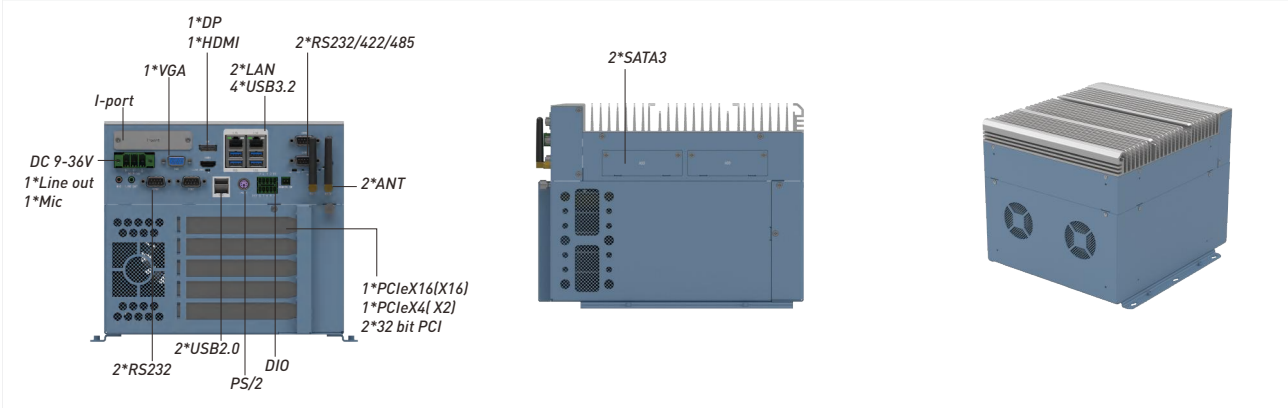
Environment

Operating Temp	-20°C~60°C SSD, with air flow; -10°C~55°C HDD, with air flow;
Storage Temp	-40°C~85°C
Storage Humidity	10~95%@40°C, No-condensation
Vibration	5 grms/5~500Hz/random/operation(SSD); 1 grms/5~500Hz/random/operation(HDD)
Shock	50g peak acceleration(duration 11ms,SSD); 20g peak acceleration(duration 11ms,HDD)
Certificate/EMC	CE/FCC Class A

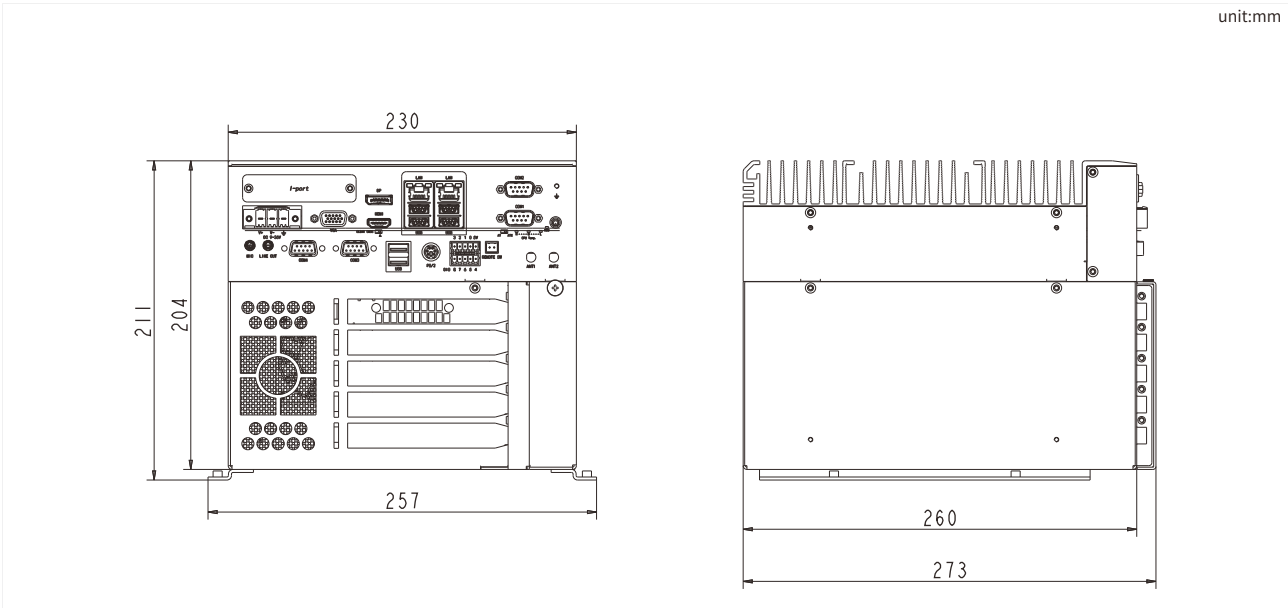
OS

OS	Windows11, Windows 10 IoT Enterprise (64-bit), Windows Server 2019, Ubuntu, SUSE, Redhat Enterprise, Wind River Linux, Yocto Project (64-bit), Wind River VxWorks 7
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I/O View



Dimensions



Ordering Information

Model	Processor	Specifications	Expansion
KMDA-6921/S001	Intel® 10th Cometlake LGA1200 CPU, H420E PCH	2*DDR4 SODIMM, 2*LAN, 4*USB3.2, 2*USB2.0, 1*PS/2, 4*COM, 1*Mini PCIe, 1*mSATA, 1*VGA, 1*DP, 1*HDMI, Audio Line out & Mic, 8bit DIO, 1*I-Port, 2*2.5" SATA bay, DC 9-36V	Standard: ECX-266 1*PCIeX16 (X16) +1*PCIeX4 (X2) +2*32bit PCI
PA-120DC19		AC/DC power adapter, DC 19V/6.32A,120W	
PA-220DC24		AC/DC power adapter, DC 24V/9.17A, 220W	
PA-300DC24		AC/DC power adapter, DC 24V/12.5A, 300W	

KMDA-7610

Intel® Alder Lake-S 12th Gen LGA1700 CPU, 2*LAN, 4*USB3.2, 1*VGA, 1*DP, 1*HDMI, 4*COM, 16bit DIO, 1*Mini PCIe, 2*SATA3.0, DC 9-36V

Key Specification

- Intel® 12th Gen Alder lake-S LGA1700 CPU
- Intel® H610 Chipset
- 2*DDR5 4800MHz SODIMM, up to 64GB
- 1*DP, 1*HDMI and 1*VGA, 3 independent displays
- 2*LAN, 4*USB3.2, 2*USB2.0, 16bit Iso. DIO
- Audio 1*MIC+1*LINE OUT
- 2*RS232/422/485 and 2*RS232 COM
- 1*Mini-PCIe full size with SIM card slot, support 4G LTE modem
- 2*2.5"Easy-plug SATA3.0 bay and 1*mSATA
- DC IN 9-36V, wide power input, with OVP,OCP and SCP



Product Overview

KMDA-7610 is a fanless high-performance box computer with H610 chipset, powered by Intel® 12th Gen Alder lake-S CPU, multi IO interfaces and moderate size. It is suitable for industrial automation, highway tolling, security monitoring and environmental detection and other industries and fields.

Product Parameters

System

CPU	Intel® Alder lake-S 12th Gen Core™ i9/i7/i5/i3/Pentium/Celeron LGA1700 CPU, Intel® H610 PCH
RAM	2*262-Pin SODIMM, DDR5 4800MHz, 64GB max.
Graphics	Intel® UHD Graphics, Supports DirectX 12, OpenGL 4.5, OpenCL 3.0; DP:7680*4320@60Hz, HDMI:4096*2160@60Hz, VGA:1920*1200@60Hz, 3 independent display
LAN	1*Intel I226V, 10-1000M,WOL; 1*Intel I219 LM, 10-1000M, WOL
USB	2* USB3.2(10G), 2*USB3.2(5G), 2*USB2.0
Display	1*DP+1*HDMI+1*VGA
Audio	1*Line out+1*MIC,Realtek ALC897
COM/Others	2*RS232/422/485, 2*RS232; 16bit Iso.DIO(8bit DI-2.5KV-PNP/NPN;8bit DO-2.5KV-200mA);
DIO	16bit non Iso.DIO(2*10pin)

Storage

Storage	2*2.5" SATA3.0; 1*mSATA(SATA3.0)
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Others

LED	1*PowerLED, 1*HDD LED, 3*CPU Temp LED
Switch	1*Power SW, Remote SW,1*AT/ATX SW, 1*Clear CMOS
WDT	programmable via software 1 to 255 second
TCPM/TPM	Optional TPM2.0

Expansion

Expansion	1*Mini-PCIe(PCIeX1/USB2.0+SIM),4G LTE/PCIe module; I-port: 16bit DIO, USB2.0 or Mini PCIe
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Power

Power&TDP	DC IN 9-36V , short circuit protection, OVP&OCP TDP:TBD
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Mechanical

Structure	Aluminum Chassis, SGCC frame
Color	Pigeon blue + White aluminum grey
Installation	desktop mounting
Dimension (W*H*D)	256.68*267.3*99mm
Weight	TBD

Environment

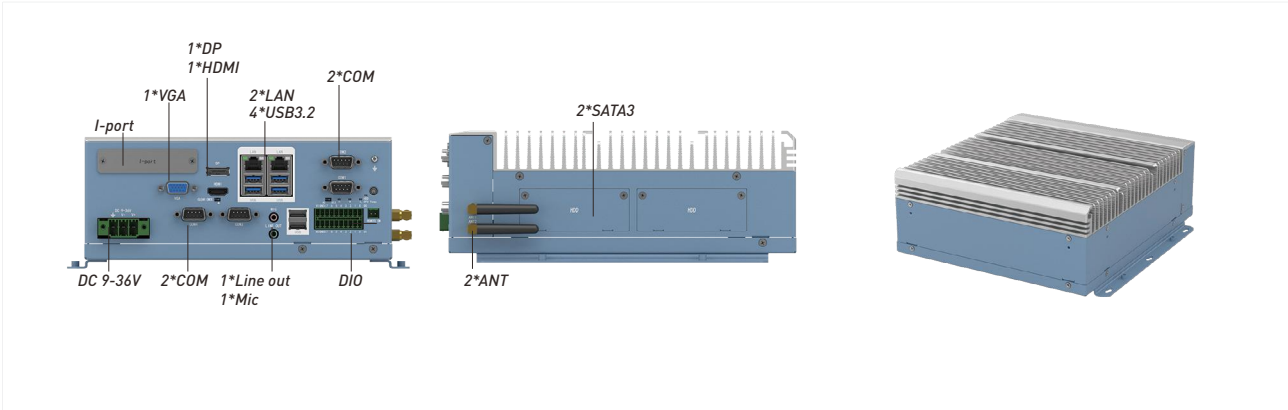
Operating Temp	-20°C~60°C SSD, with air flow; -10°C~55°C HDD, with air flow;
Storage Temp	-40°C~85°C
Storage Humidity	10~95%@40°C, No-condensation
Vibration	5 grms/5~500Hz/random/operation(SSD); 1 grms/5~500Hz/random/operation(HDD)
Shock	50g peak acceleration(duration 11ms,SSD); 20g peak acceleration(duration 11ms,HDD)

Certificate/EMC	CE/FCC Class A
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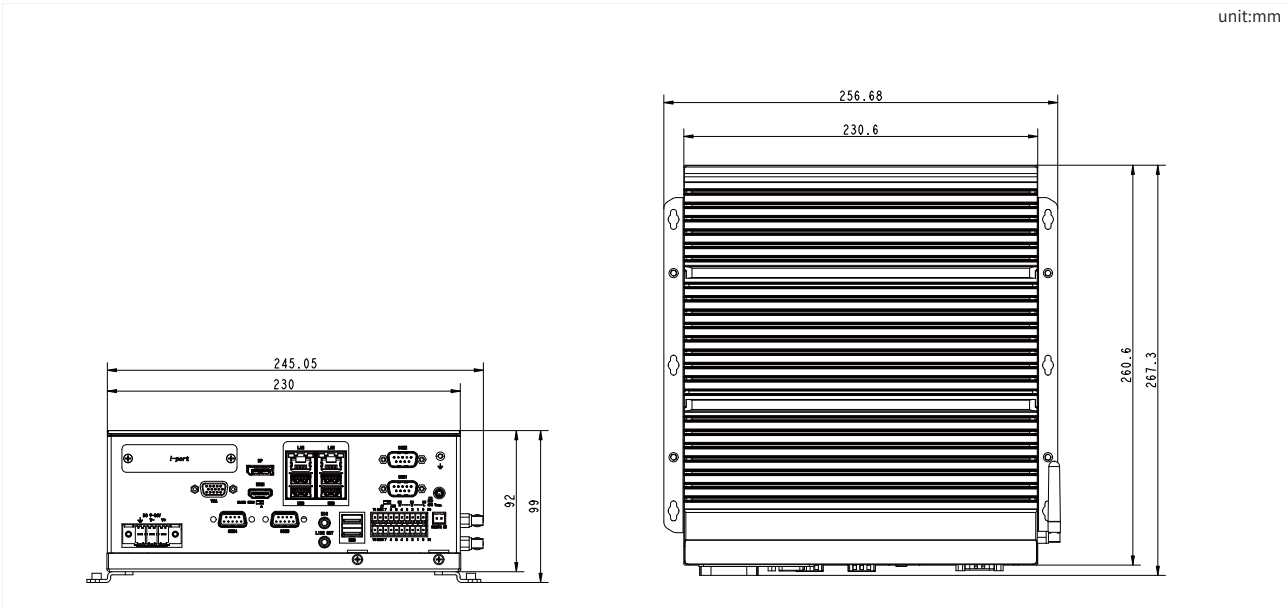
OS

OS	Win11, Win 10 IoT Enterprise 2021 LTSC, Ubuntu, SuSe, Red Hat Enterprise, Wind River Linux, Wind River VxWorks 7
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I/O View



Dimensions



Ordering Information

Model	Processor	Specifications
KMDA-7610/S001	Intel® Alder lake-S 12th Gen Core™ i9/i7/i5/i3/Pentium/Celeron LGA1700 CPU, Intel® H610 PCH	2*DDR5 SODIMM, 2*LAN, 4*USB3.2, 2*USB2.0, 4*COM, 1*VGA, 1*DP,1*HDMI, Line out & Mic, 16bit Iso.DIO, 1*I-Port, 2*2.5"SATA bay, 1*mSATA, 1*Mini PCIe, DC 9-36V

KMDA-7920

Intel® Alder Lake-S 12th Gen LGA1700 CPU, 2*LAN, 4*USB3.2, 1*VGA, 1*DP, 1*HDMI, 4*COM, 16bit DIO, 2*PCIe, 2*SATA3.0, DC 9-36V

Key Specification

- Intel® 12th Gen Alder lake-S LGA1700 CPU
- Intel® H610 PCH
- 2*DDR5 4800MHz SODIMM, up to 64GB
- 1*DP, 1*HDMI and 1*VGA, 3 independent displays
- 2*LAN, 4*USB3.2, 2*USB2.0, 16bit Iso. DIO
- Audio 1*MIC+1*LINE OUT
- 2*RS232/422/485 and 2*RS232 COM
- 1*Mini-PCIe full size with SIM card slot, support 4G LTE modem
- 1*PCIeX16+1*PCIeX16 (X4 signal) dual expansions
- 2*2.5"Easy-plug SATA3.0 bay and 1*mSATA
- DC IN 9-36V, wide power input, with OVP,OCP and SCP



Product Overview

KMDA-7920 is a fanless high-performance box computer with H610 chipset, powered by Intel® 12th Gen Alder lake-S CPU, multi IO interfaces, dual PCIe extensions and moderate size. It is suitable for industrial automation, highway tolling, AI edge computing, security monitoring and environmental detection and other industries and fields.

Product Parameters

System

CPU	Intel® Alder lake-S 12th Gen Core™ i9/i7/i5/i3/Pentium/Celeron LGA1700 CPU, Intel® H610 PCH
RAM	2*262-Pin SODIMM, DDR5 4800MHz, 64GB max.
Graphics	Intel® UHD Graphics, Supports DirectX 12, OpenGL 4.5, OpenCL 3.0; DP:7680*4320@60Hz, HDMI:4096*2160@60Hz, VGA:1920*1200@60Hz, 3 Independent Display
LAN	1*Intel I226V, 10-1000M,WOL; 1*Intel I219 LM, 10-1000M, WOL
USB	2* USB3.2(10G), 2*USB3.2(5G), 2*USB2.0
Display	1*DP+1*HDMI+1*VGA
Audio	1*Line out+1*MIC, Realtek ALC897
COM/Others	2*RS232/422/485, 2*RS232; 16bit Iso.DIO(8bit DI-2.5KV-PNP/NPN;8bit DO-2.5KV-200mA);
DIO	16bit non Iso.DIO(2*10pin)

Storage

Storage	2*2.5" SATA3.0; 1*mSATA(SATA3.0)
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Others

LED	1*PowerLED, 1*HDD LED, 3*CPU TempLED
Switch	1*Power SW, Remote SW,1*AT/ATX SW, 1*Clear CMOS
WDT	programmable via software 1 to 255 second
TCPM/TPM	Optional TPM2.0

Expansion

Expansion	1*PCIe5.0X16(X16)+1*PCIe3.0X16(X4), GPU<150W<250mm/ AI Card<75W<280mm; or 1*PCIe5.0X16(X16)+1*32bit PCI 1*Mini-PCIe(PCIeX1/USB2.0+SIM),4G LTE/PCIe module;
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Power

Power& TDP	DC IN 9-36V , short circuit protection, OVP&OCP TDP:TBD
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Mechanical

Structure	Aluminum Chassis, SGCC frame
Color	Pigeon blue + White aluminum grey
Installation	desktop mounting
Dimension (W*H*D)	256.68*312.7*149.9mm
Weight	TBD

Environment

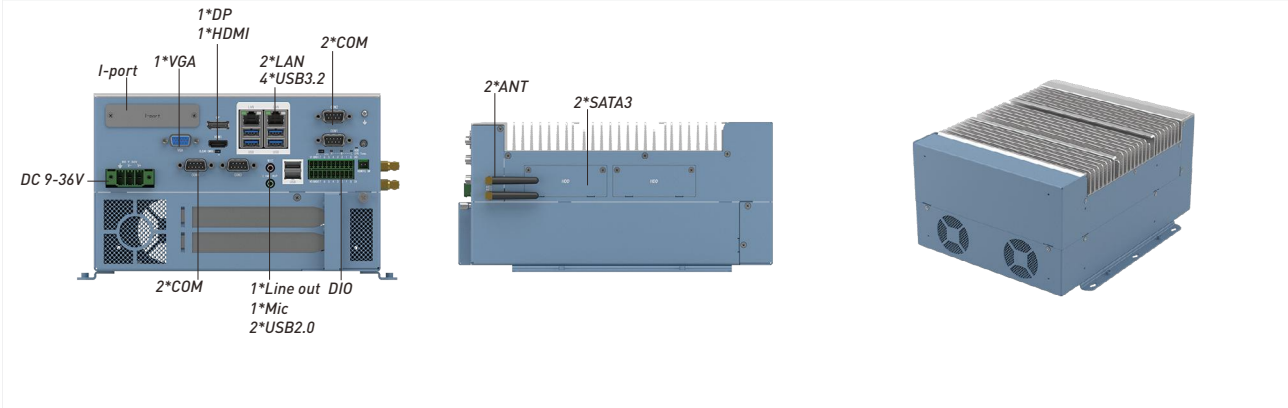
Operating Temp	-20°C~60°C SSD, with air flow; -10°C~55°C HDD, with air flow;
Storage Temp	-40°C~85°C
Storage Humidity	10~95%@40°C, No-condensation
Vibration	5 grms/5~500Hz/random/operation(SSD); 1 grms/5~500Hz/random/operation(HDD)
Shock	50g peak acceleration(duration 11ms,SSD); 20g peak acceleration(duration 11ms,HDD)

Certificate/EMC CE/FCC Class A

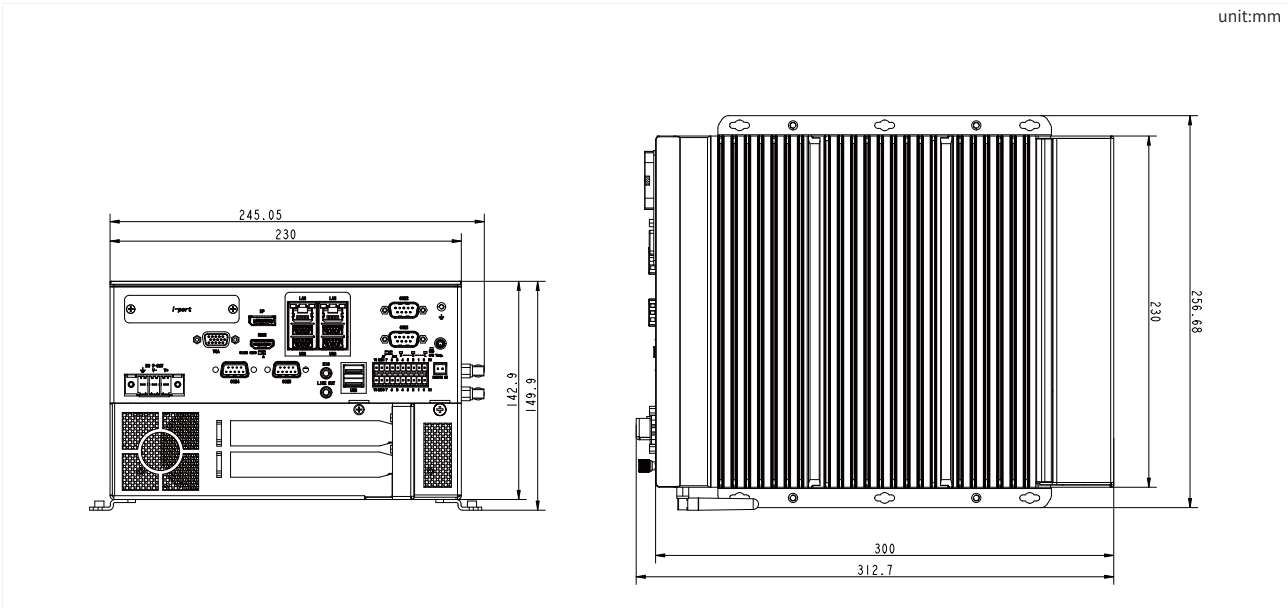
OS

OS	Win11, Win10 IoT Enterprise 2021 LTSC, Ubuntu, SuSe, Red Hat Enterprise, Wind River Linux, Wind River VxWorks 7
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I/O View



Dimensions



Ordering Information

Model	Processor	Specifications	Expansion
KMDA-7920/S001	Intel® Alder lake-S 12th Gen Core™ i9/i7/i5/i3/Pentium/Celeron LGA1700 CPU, Intel® H610 PCH	2*DDR5 SODIMM, 2*LAN, 4*USB3.2, 2*USB2.0, 4*COM, 1*VGA, 1*DP,1*HDMI, Line out & Mic, 16bit Iso.DIO, 1*I-Port, 2*2.5"SATA bay, 1*mSATA, 1*Mini PCIe, DC 9-36V	Standard: ECX-255 1*PCIeX16(X16)+1*PCIeX16(X4) Optional: ECX-271 1*PCIeX16(X16)+1*32bit PCI

KMDA-7921

Intel® Alder Lake-S 12th Gen LGA1700 CPU, 2*LAN, 4*USB3.2, 1*VGA, 1*DP, 1*HDMI, 4*COM, 16bit DIO, 2*PCIe+2*PCI, 2*SATA3.0, DC 9-36V

Key Specification

- Intel® 12th Gen Alder lake-S LGA1700 CPU
- Intel® H610 PCH
- 2*DDR5 4800MHz SODIMM, up to 64GB
- 1*DP,1*HDMI and 1*VGA,3 independent displays
- 2*LAN, 4*USB3.2, 2*USB2.0, 16bit Iso. DIO
- Audio 1*MIC+1*LINE OUT
- 2*RS232/422/485 and 2*RS232 COM
- 1*Mini-PCIe full size with SIM card slot, support 4G LTE modem
- 1*PCIeX16+1*PCIeX4 (X2 signal)+2*PCI Quad expansions
- 2*2.5"Easy-plug SATA3.0 bay and 1*mSATA
- DC IN 9-36V, wide power input, with OVP,OCP and SCP



Product Overview

KMDA-7921 is a fanless high-performance box computer with H610 chipset, powered by Intel® 12th Gen Alder lake-S CPU, multi IO interfaces, dual PCIe dual PCI quad expansions and moderate size. It is suitable for industrial automation, highway tolling, AI edge computing, security monitoring and environmental detection and other industries and fields.

Product Parameters

System

CPU	Intel® Alder lake-S 12th Gen Core™ i9/i7/i5/i3/Pentium/Celeron LGA1700 CPU, Intel® H610 PCH
RAM	2*262-Pin SODIMM, DDR5 4800MHz, 64GB max.
Graphics	Intel® UHD Graphics, Supports DirectX 12, OpenGL 4.5, OpenCL 3.0; DP:7680*4320@60Hz, HDMI:4096*2160@60Hz, VGA:1920*1200@60Hz, 3 independent display
LAN	1*Intel I226V, 10-1000M,WOL; 1*Intel I219 LM, 10-1000M, WOL
USB	2* USB3.2(10G), 2*USB3.2(5G), 2*USB2.0
Display	1*DP+1*HDMI+1*VGA
Audio	1*Line out+1*MIC,Realtek ALC897
COM/Others	2*RS232/422/485, 2*RS232
DIO	16bit Iso.DIO(8bit DI-2.5KV-PNP/NPN;8bit DO-2.5KV-200mA); 16bit non Iso.DIO(2*10pin)

Storage

Storage	2*2.5" SATA3.0; 1*mSATA(SATA3.0)
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Others

LED	1*PowerLED, 1*HDD LED, 3*CPU Temp LED
Switch	1*Power SW, Remote SW,1*AT/ATX SW, 1*Clear CMOS
WDT	programmable via software 1 to 255 second
TCPM/TPM	Optional TPM2.0

Expansion

Expansion	1*PCIe5.0X16(X16)+1*PCIe3.0X4(X2)+2*32bit PCI, GPU<150W<250mm/Al Card<75W<280mm; 1*Mini-PCIe(PCIeX1/USB2.0+SIM),4G LTE/PCIe module;
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Power

Power& TDP	DC IN 9-36V , short circuit protection, OVP&OCP TDP:TBD
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Mechanical

Structure	Aluminum Chassis, SGCC frame
Color	Pigeon blue + White aluminum grey
Installation	desktop mounting
Dimension (W*H*D)	256.68*312.7*210.9mm
Weight	TBD

Environment

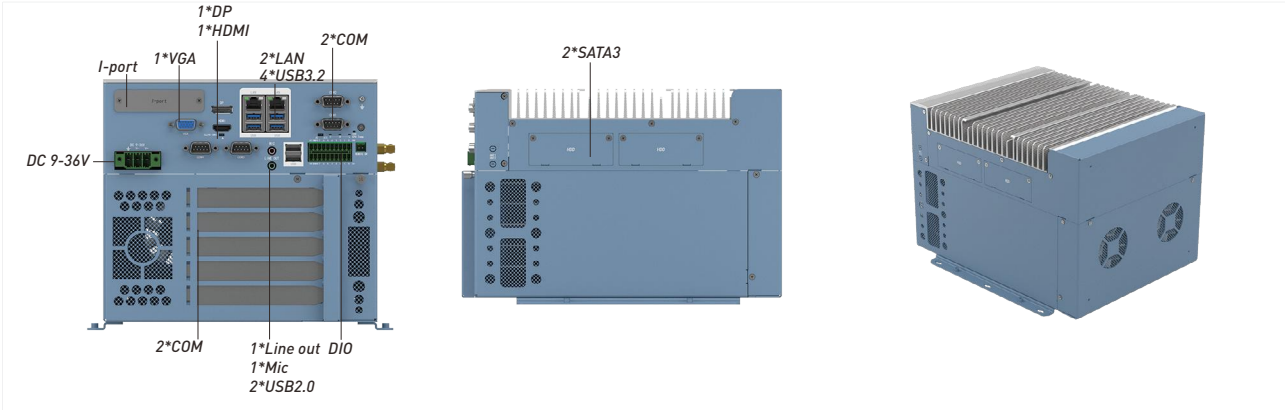
Operating Temp	-20°C~60°C SSD, with air flow; -10°C~55°C HDD, with air flow;
Storage Temp	-40°C~85°C
Storage Humidity	10~95%@40°C, No-condensation
Vibration	5 grms/5~500Hz/random/operation(SSD); 1 grms/5~500Hz/random/operation(HDD)
Shock	50g peak acceleration(duration 11ms,SSD); 20g peak acceleration(duration 11ms,HDD)

Certificate/EMC CE/FCC Class A

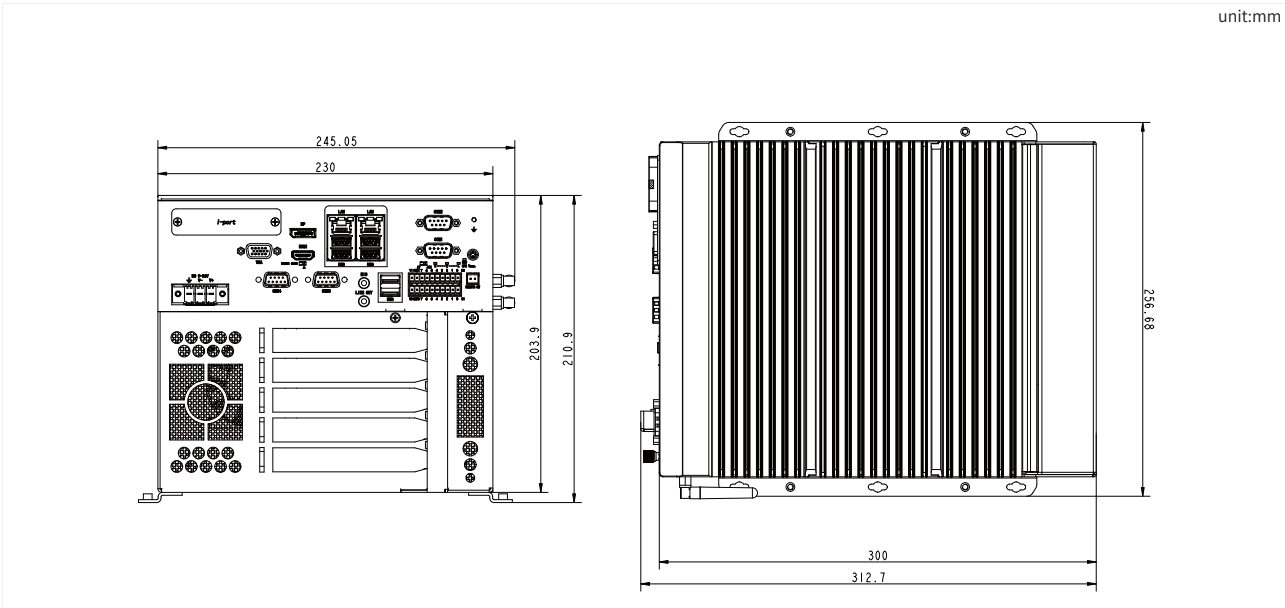
OS

OS	Windows 11, Windows 10 IoT Enterprise 2021 LTSC, Ubuntu, SuSe, Red Hat Enterprise, Wind River Linux, Wind River VxWorks 7
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I/O View



Dimensions



Ordering Information

Model	Processor	Specifications	Expansion
KMDA-7921/S001	Intel® Alder lake-S 12th Gen Core™ i9/i7/i5/i3/Pentium/Celeron LGA1700 CPU, Intel® H610 PCH	2*DDR5 SODIMM, 2*LAN, 4*USB3.2, 2*USB2.0, 4*COM, 1*VGA, 1*DP,1*HDMI, Line out & Mic, 16bit Iso.DIO, 1*I-Port, 2*2.5"SATA bay, 1*mSATA, 1*Mini PCIe, DC 9-36V	Standard: ECX-266 1*PCIeX16(X16)+1*PCIeX4(X2) +2*32bit PCI

KMDA-2630-S

Intel® Elkhart lake CPU, VGA+HDMI, 4*LAN, 2*USB3.1, 4*COM, 8-bit DIO, Audio out + Line in + Mic, mSATA + 2.5”SATA bay

Key Specification

- Compact aluminum frame, Fanless cooling design
- Intel® Elkhart lake Celeron Soc CPU
- 1*DDR4 3200MHz SODIMM, up to 32GB
- Intel® UHD Graphics, 1*HDMI+1*VGA
- 2*Intel® I226V, up to 2.5Gbps, 2*Realtek 8111H Gig. Ethernet
- 2*USB3.1 Gen2, 6*USB2.0, Audio out + Line in + Mic
- 2*RS232, 2*RS232/422/485, 8-bit DIO
- 1*mSATA, 1*2.5”SATA bay
- DC 12V or DC 9-36V power in



Product Overview

KMDA-2630 is a ULT fan-less and compact size box computer, powered by Intel Elkhart lake SoC Celeron 4 cores or dual-core CPU, supporting 2.5G network and dual USB3.1 gen2 10G High-speed ports. It has a multy IO interface, with fanless aluminum frame, which is cabinet and delicate, and also support wide power input, so it is suitable for machine vision, AGV/ARM, self service terminal and other fields.

Product Parameters

System

CPU	Intel® Elkhart lake SoC CPU: Celeron J6412 2.0-2.6GHz; Celeron N6210 1.2-2.6GHz
RAM	1*DDR4 SO-DIMM , 3200MHz, 32GB max.
Graphics	Intel Gen10 UHD Graphics, HW Encode: H.265/HEVC, H.264/MPEG-4 AVC, MPEG-2, JPEG/MJPEG ,VP8; HW Decode: H.265/HEVC, H.264/MPEG-4 AVC, MPEG-2, VC-1/WMV9, JPEG/MJPEG, VP8, VP9 HDMI2.0: 4096*2304@60Hz VGA: 1920*1200@60Hz
LAN	2*Intel I226V, 10M-2.5G, WOL; 2*Realtek 8111H, 10-1000M
USB	2* USB3.2 Gen2, 2*USB2.0 , 4*USB2.0(5V System, 1A)
Display	1*HDMI+1*VGA
Audio	1*Line out,Realtek ALC897
COM/Others	2*RS232/422/485, 2*RS232;
DIO	8 bitDIO(DB9)

Storage

Storage	1*2.5" SATA3,6Gbps; 1*mSATA, AHCI
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Others

LED	1*PowerLED, 1*HDD LED, 3*CPU Temp LED
Switch	1*PowerSW, 1*Remote SW, 1*AT/ATX模式选择SW, 1*Clear CMOS
WDT	programmable via software 1 to 255 second

Expansion

Expansion	1*M.2 B-key 3052(PCIe X1/USB2.0+SIM), 5G NR/4G LTE; 1*Full size Mini PCIe(PCIe X1)
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Power

Power& TDP	DC 12V or DC 9-36V, short circuit protection, OVP&OCP TDP: 26.4W (J6412 CPU/4G DDR4/64G SSD)
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Mechanical

Structure	Aluminum Chassis, SGCC frame
Color	Pigeon blue + White aluminum grey
Installation	desktop mounting
Dimension (W*D*H)	162*111.8*65 mm
Weight	1.32KG

Environment

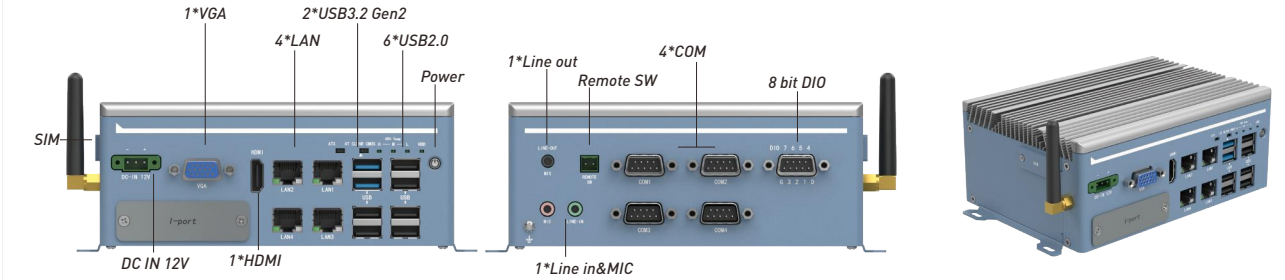
Operating Temp	-20°C~60°C, SSD, with air flow
Storage Temp	-40°C~85°C
Storage Humidity	10~95%@40°C, No-condensation
Vibration	5 grms/5~500Hz/random/operation(SSD); 1 grms/5~500Hz/random/operation(HDD)
Shock	50g peak acceleration(duration 11ms,SSD); 20g peak acceleration(duration 11ms,HDD)

Certificate/EMC	CE/FCC Class A
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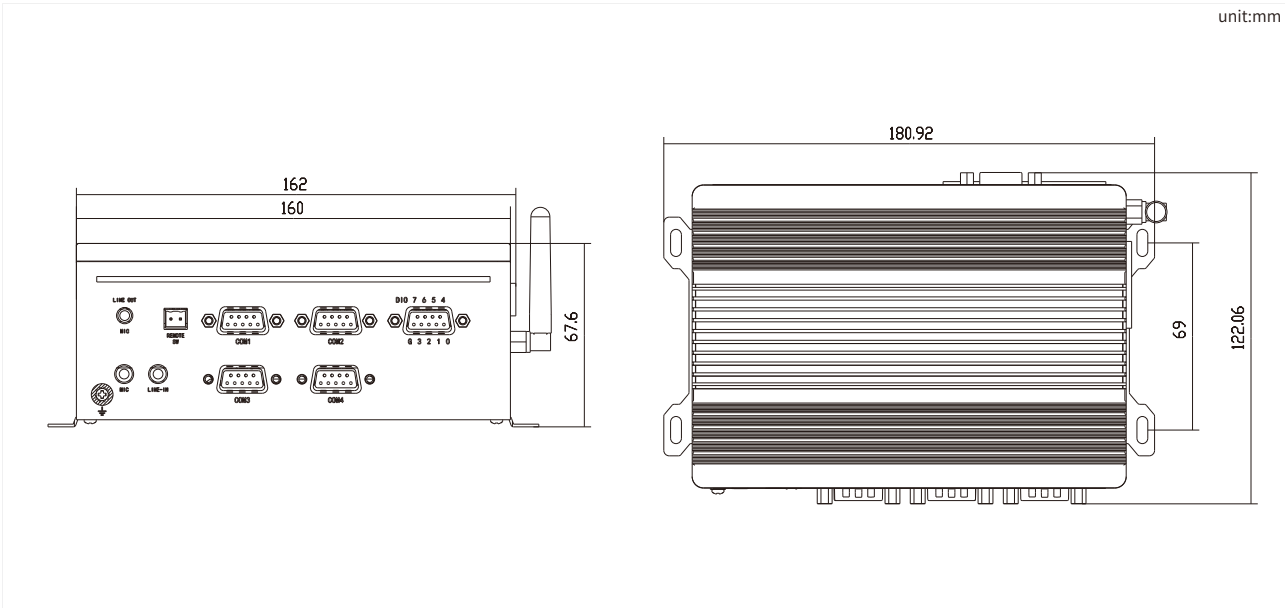
OS

OS	Windows 10 64 bit, SUSE, Ubuntu, Wind River, Linux
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I/O View



Dimensions



Ordering Information

Model	Processor	Specifications
KMDA-2630/S001	Intel® Celeron J6412	1*DDR4 SODIMM, 4*LAN, 2*USB3.1, 6*USB2.0, 4*COM, 8-bit DIO, 1*M.2, 1*Mini PCIe,1*VGA, 1*HDMI, 1*Line out + 1*Line in + 1*Mic, 1*mSATA, 1*2.5”SATA bay, I-port, DC-IN 12V
KMDA-2630/S002	Intel® Celeron N6210	
KMDA-2630/S001/WP	Intel® Celeron J6412	1*DDR4 SODIMM, 4*LAN, 2*USB3.1, 6*USB2.0, 4*COM, 8-bit DIO, 1*M.2, 1*Mini PCIe, 1*VGA, 1*HDMI, 1*Line out + 1*Line in + 1*Mic, 1*mSATA, 1*2.5”SATA bay, I-port, DC-IN 9~36V
KMDA-2630/S002/WP	Intel® Celeron N6210	
PA-60DC12		AC/DC power adapter, DC 12V/5A, 60W

KMDA-2630-T

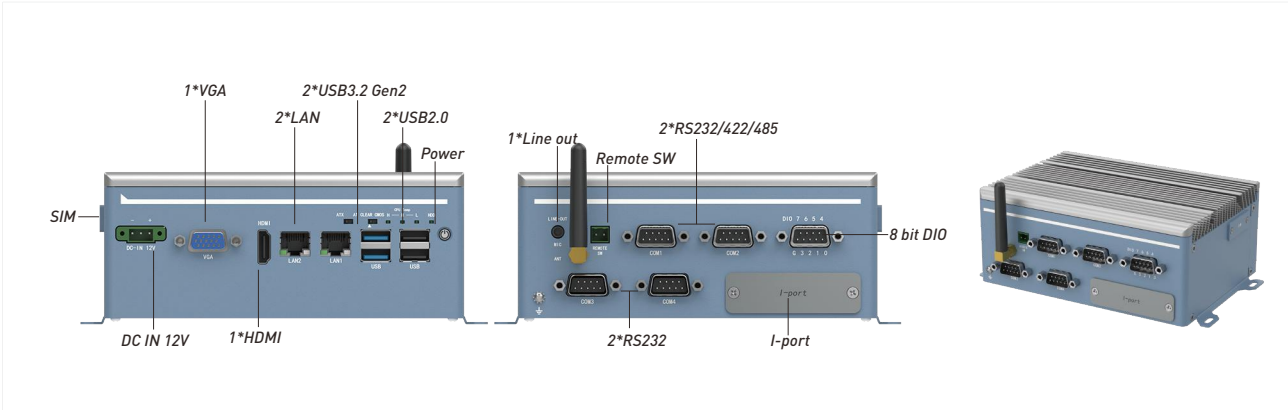
Intel® Elkhart lake CPU, VGA+HDMI, 2*2.5G-LAN, 2*USB3.1, 4*COM, 8-bit DIO, Audio out, mSATA+2.5”SATA bay

Key Specification

- Compact aluminum frame, Fanless cooling design
- Intel® Elkhart lake Celeron Soc CPU
- 1*DDR4 3200MHz SODIMM, up to 32GB
- Intel® UHD Graphics, 1*HDMI+1*VGA
- 2*Intel® I226V, up to 2.5Gbps
- 2*USB3.1 Gen2, 2*USB2.0, Audio out
- 2*RS232, 2*RS232/422/485, 8-bit DIO
- 1*mSATA, 1*2.5”SATA bay
- DC 12V or DC 9-36V power in



I/O View



Product Overview

KMDA-2630 is a ULT fan-less and compact size box computer, powered by Intel Elkhart lake SoC Celeron 4 cores or dual-core CPU, supporting 2.5G network and dual USB3.1 gen2 10G High-speed ports. It has a multy IO interface, with fanless aluminum frame, which is cabinet and delicate, and also support wide power input, so it is suitable for machine vision, AGV/ARM, self service terminal and other fields.

Product Parameters

System

CPU	Intel® Elkhart lake SoC CPU: Celeron J6412 2.0-2.6GHz; Celeron N6210 1.2-2.6GHz
RAM	1*DDR4 SO-DIMM , 3200MHz, 32GB max.
Graphics	Intel Gen10 UHD Graphics, HW Encode: H.265/HEVC, H.264/MPEG-4 AVC, MPEG-2, JPEG/MJPEG ,VP8; HW Decode: H.265/HEVC, H.264/MPEG-4 AVC, MPEG-2, VC-1/WMV9, JPEG/MJPEG, VP8, VP9 HDMI2.0: 4096*2304@60Hz VGA: 1920*1200@60Hz
LAN	2*Intel I226V, 10M-2.5G, WOL
USB	2* USB3.2 Gen2, 2*USB2.0
Display	1*HDMI+1*VGA
Audio	1*Line out, Realtek ALC897
COM/Others	2*RS232/422/485, 2*RS232;
DIO	8 bitDIO(DB9)

Storage

Storage	1*2.5" SATA3,6Gbps; 1*mSATA, AHCI
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Others

LED	1*Power LED, 1*HDD LED, 3*CPU Temp LED
Switch	1*PowerSW, 1*Remote SW, 1*AT/ATX SW, 1*Clear CMOS
WDT	programmable via software 1 to 255 second

OS

OS	Windows 10 64 bit, SUSE, Ubuntu, Wind River, Linux
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Expansion

Expansion	1*M.2 B-key 3052(PCIe X1/USB2.0+SIM), 5G RN/4G LTE; 1*JHCTECH Express-01 80pin: 2*PCIeX1, 4*USB2.0, 1*Sm bus, 1*eSPI
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Power

Power&TDP	DC 12V or DC 9-36V, short circuit protection, OVP&OCP 18.12W (J6412 CPU/4G DDR4/256G SSD)
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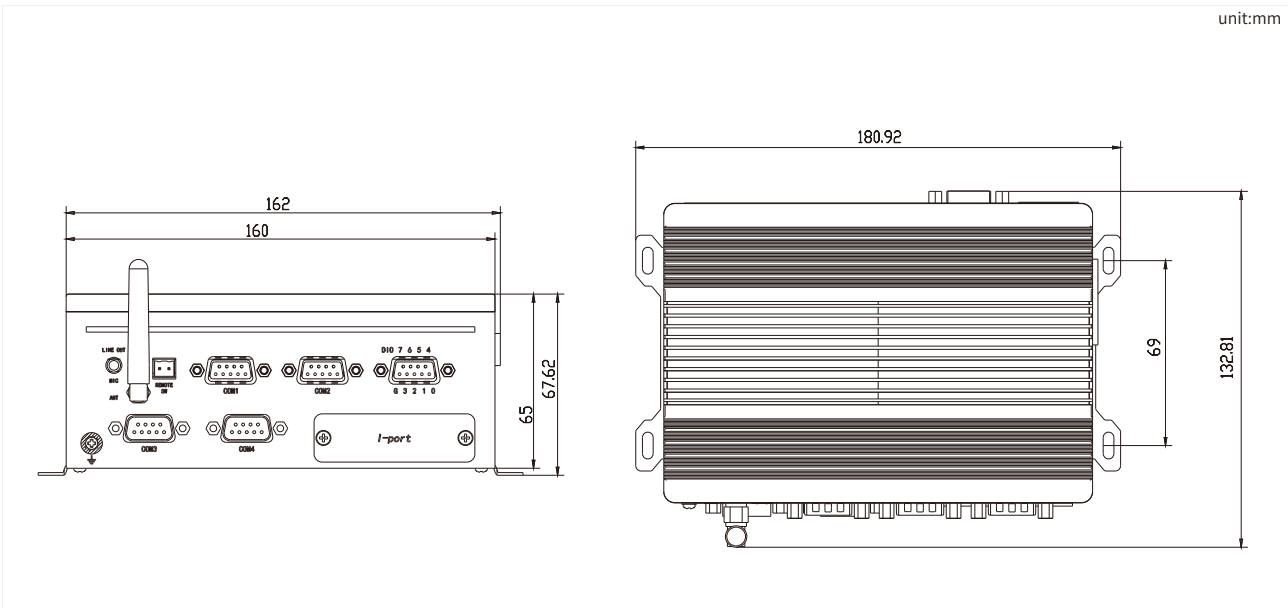
Mechanical

Structure	Aluminum Chassis, SGCC frame
Color	Pigeon blue + White aluminum grey
Installation	desktop mounting
Dimension (W*D*H)	162*111.8*65 mm
Weight	1.30KG

Environment

Operating Temp	-20°C~60°C, SSD, with air flow
Storage Temp	-40°C~85°C
Storage Humidity	10~95%@40°C, No-condensation
Vibration	5 grms/5~500Hz/random/operation(SSD); 1 grms/5~500Hz/random/operation(HDD)
Shock	50g peak acceleration(duration 11ms,SSD); 20g peak acceleration(duration 11ms,HDD)
Certificate/EMC	CE/FCC Class A

Dimensions



Ordering Information

Model	Processor	Specifications
KMDA-2630/T001	Intel® Celeron J6412	1*DDR4 SODIMM, 2*LAN, 2*USB3.1, 2*USB2.0, 4*COM, 8-bit DIO, 1*M.2, 1*VGA, 1*HDMI, 1*Line out, 1*mSATA, 1*2.5"SATA bay, I-port, DC-IN 12V
KMDA-2630/T002	Intel® Celeron N6210	
KMDA-2630/T001/WP	Intel® Celeron J6412	1*DDR4 SODIMM, 2*LAN, 2*USB3.1, 2*USB2.0, 4*COM, 8-bit DIO, 1*M.2, 1*VGA, 1*HDMI, 1*Line out, 1*mSATA, 1*2.5"SATA bay, I-port, DC-IN 9-36V
KMDA-2630/T002/WP	Intel® Celeron N6210	
PA-60DC12		AC/DC power adapter, DC 12V/5A, 60W

KMDA-3301

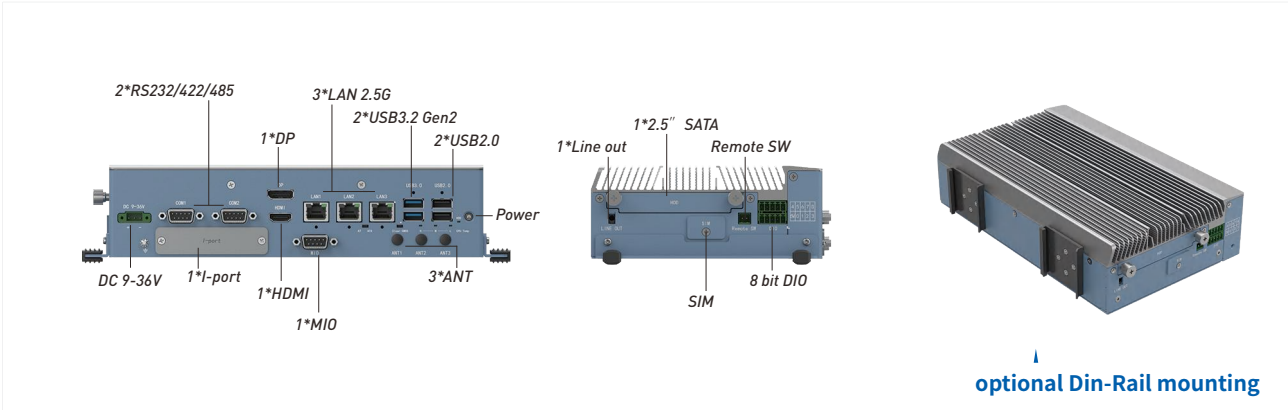
Intel® Tiger lake U Soc CPU, DP+HDMI, 3*LAN, 2*COM, 6*USB, 1*Mini PCIe, 1*mSATA, 2*M.2, support 5G NR, DC 9-36V wide power input

Key Specification

- Intel® Tiger lake U Soc CPU
- Aluminum chassis, fanless design
- 3*I226V LAN, support iAMT13.0
- 1*DP+1*HDMI, 8K+4K dual display output
- 1*Mini PCIe support Wifi/BT, 1*M.2 B-Key with SIM slot, support 5G NR
- 1*M.2 M-Key , 1*mSATA, 1*SATA3.0
- DC 9~36V, with short circuit, over voltage & over current protection
- Support desktop mounting and Din-Rail mounting



I/O View



Product Overview

KMDA-3301 is a new fanless box PC, powered by Intel® Tiger lake U Soc CPU series, support Intel Boost Deep Learning technology. With shock absorption design, it is suitable for C-V2X MEC computing, AGV, machine vision and other applications.

Product Parameters

Processor

CPU	Intel® Tigerlake U Celeron/Core I3/I5/I7 CPU
Storage	2* DDR4 SO-DIMM slot, support 3200MHz, max up to 64GB
Graphics	Intel UHD Graphics or iRIS® Xe Graphics , Supports Intel Boost Deep Learning technology, DirectX12.1, OpenGL 4.6/OpenCL 2.0, HDMI 2.0: 4096x2304@60Hz, DP 1.4: 7680x4320@60Hz
LAN	3*Intel I226V, 10M/ 100M/1000M/2.5G, support iAMT 13.0
USB	2*USB3.2 Gen 2(10Gbps), 2*USB2.0, 1*USB2.0 (TypeA), 1*USB2.0 (internal pinheader)
Display	1*HDMI+1*DP
Audio	1*Line out+1*Mic, Realtek ALC897
Serial Ports/ Others	2*RS232/422/485(DB9), 1*MIO(opt support built-in expansion module) 1*SIM slot (on the side)
DIO	1*8-bit DIO (2*5Pin)

Storage

Storage	1*2.5" SATA bay; 1* full size mSATA, support AHCI; 1*M.2 2280 M-Key NVME(PCIe4.0 X2)
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Others

LED	1*Power LED, 1*HDD LED, 3*CPU Temp LED
Switch	1*Power SW, 1*AT/ATX SW, 1*Clear CMOS SW
WDT	Watchdog timeout programmable via software 1 to 255 second

Expansion

Expansion	1*Mini PCIe(PCIe X1+USB2.0), support Wifi/BT module 1*M.2 3052 B-Key, (PCIe X1+USB2.0+SIM), 5G NR/4G LTE 1*M.2 2280 M-Key(PCIe4.0 X2), support high speed function card
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Power supply

Power	DC IN 9~36V, with short circuit protection, OVP&OCP
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Mechanical

Structure	Aluminum chassis, SGCC
Color	Blue+white
Mounting	Desktop mounting, optional Din-Rail mounting
Dimension (L*W*H)	250*154*61.9mm
Weight	2.55KG

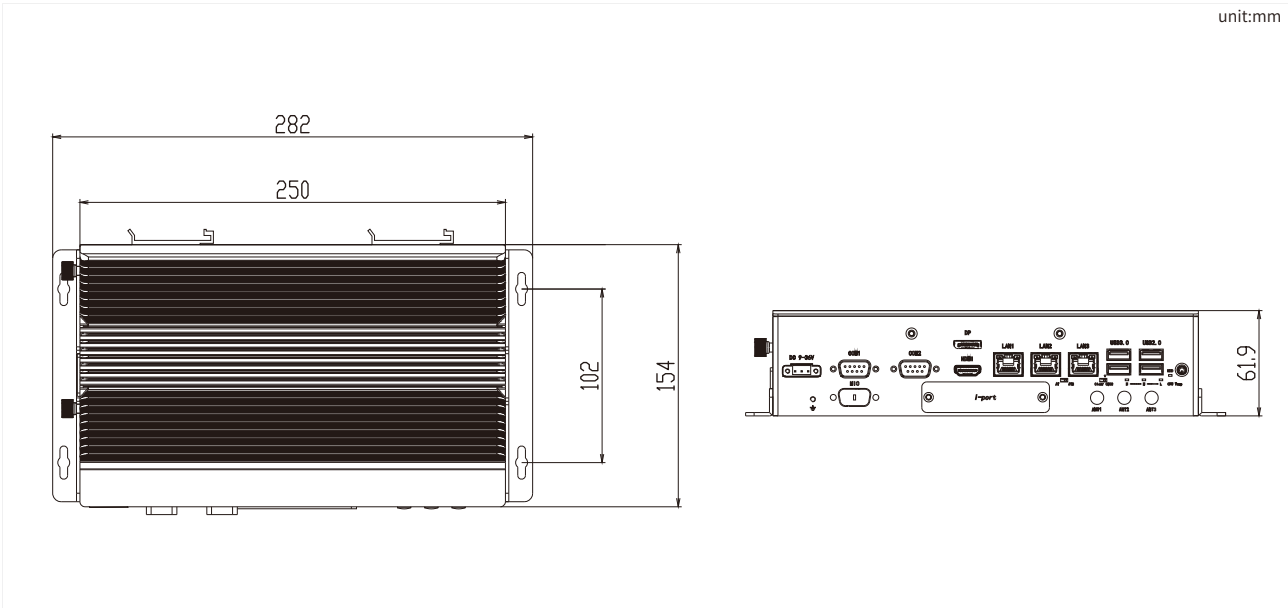
Environment

Operating Temp	-20°C~65°C, wide temp SSD, airflow;
Storage Temp	-40°C~85°C
Storage Humidity	10~90%@40°C, non-condensing
Vibration	5 grms/5~500Hz/random/during operation(SSD); 1 grms/5~500Hz/random/during operation(HDD)
Shock	50g peak acceleration(11ms duration)(SSD); 20g peak acceleration(11ms duration)(HDD)

Certificates/ EMC	CE/FCC Class A
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OS	Windows 10 64 bit, SUSE, Ubuntu, Wind River, Linux
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Dimensions



Ordering Information

Model	Processor	Specifications
KMDA-3301-S001	Intel® Core I3-1115G4	2*DDR4 SODIMM, 3*2.5G-LAN, 2*USB3.2, 4*USB2.0, 2*COM, 8-bit DIO,1*DP, 1*HDMI, Realtek ALC662VD out & Mic, 1*Mini PCIe, 1*M.2 B-key, 1*M.2 M-Key, 1*MIO, 1*I-Port, 1*mSATA, 1*2.5"SATA bay, DC-IN 9-36V
KMDA-3301-S002	Intel® Core I5-1135G7	
KMDA-3301-S003	Intel® Core I7-1165G7	
KMDA-3301-S004	Intel® Celeron 6305E	
PA-60DC12	AC/DC power adapter, DC 12V/5A 60W	

KMDA-3302

Intel® Tiger lake U Soc CPU, HDMI, 2*LAN, 2*COM, 8bit DIO, 4*USB ,1*Mini PCIe, 1*mSATA, 1*M.2 B-Key, 1*M.2 E-Key, DC 9-36V

Key Specification

- Intel® Tiger lake U Soc CPU
- SGCC box design, 4-wire speed control fan for heat dissipation
- 1*DDR4 3200MHz SODIMM, up to 32GB
- 1*HDMI 4K display output
- 2*I210AT Gigabit Ethernet port, 2*USB3.2, 2*USB2.0
- 8bit DIO, 1*RS232/422/485, 1*RS232
- 1*M.2 2230 E-Key, WiFi/BT
- 1*M.2 B-Key, with SIM card slot,5G NR
- 1*Mini PCIe,CAN, optional switch to mSATA
- 1 * Full Size mSATA for storage
- DC 9~36V, with OVP,OCP, SCP



Product Overview

KMDA-3302 is a high-performance, small volume, and compact embedded box computer, designed with an SGCC box structure and equipped with a 4-wire speed control fan for heat dissipation. Powered by Intel® Tiger lake U Soc series CPU, with rich IO functions, slim body, anti-vibration design, suitable for mobile portable terminals, advertising machines, logistics visual inspection, AGV, AMR and other application scenarios.

Product Parameters

System

CPU	Intel® Tiger lake U Soc CPU (core i3-1115G4/i5-1135G7/i7-1165G7, Celeron 6305E), TDP 12W/15W/28W
RAM	1*DDR4 SO-DIMM, 3200MHz, 32GB max.
Graphics	Intel UHD Graphics/ Iris® Xe Graphics, DirectX12.1, OpenGL 4.6 and OpenCL 3.0, HDMI: 4096x2304@60Hz
LAN	2*Intel I210AT, 10M-1000M, WOL
USB	2*USB3.2 Gen 2; 2*USB2.0
Display	1*HDMI
Audio	/
COM/Others	2*COM(RS232/422/485+RS232); 1*MIO(Opt.CAN/moudle); 1*SIM
DIO	1*8-bit DIO (2*5Pin)

Storage

Storage	2*mSATA , SATA6.0;
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Others

LED	1*Power LED, 3*CPU Temp. LED
Switch	1*Power SW, 1*Remote SW, 1*AT/ATX SW, 1*Clear CMOS SW
WDT	programmable via software 1 to 255 second
OS	Windows 11*IoT enterprise, Windows 10*IoT enterprise, Android, SUSE, Ubuntu, Wind River, Red Hat*Enterprise, Wind River VxWorks*7, Yocto

Expansion

Expansion	1*Mini PCIe(Pcie X1+USB2.0), CAN2.0/mSATA; 1*M.2 3042/3052 B-Key(PcieX1/USB2.0+SIM), 5G NR/4G LTE; 1*M.2 2230 E-Key(PcieX1+USB2.0), WIFI/BT;
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Power Supply

Power&TDP	DC IN 9~36V, 3pin, with OVP,OCP,SCP; 37.2W (Intel Core i7-1165G7 CPU, 4G DDR4 Ram, 64G SSD)
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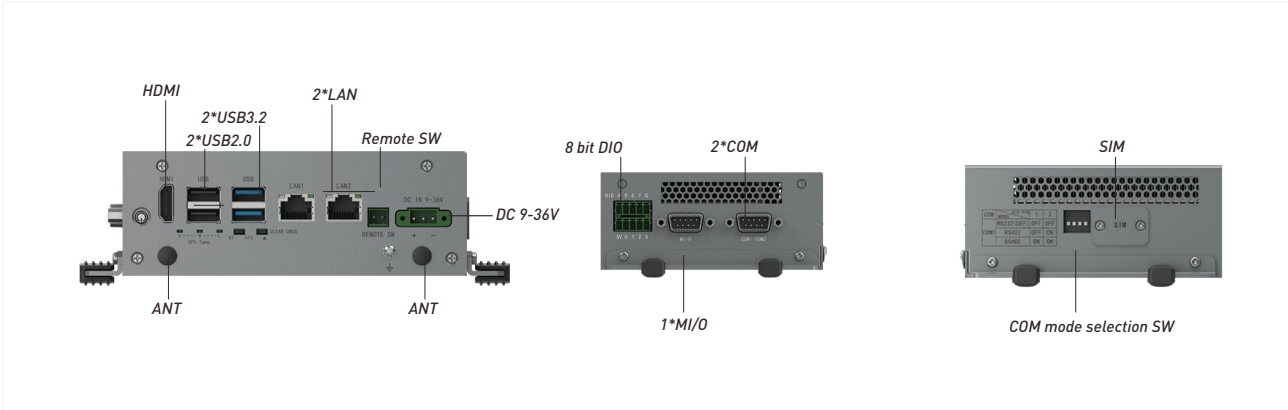
Mechanical

Structure	SGCC chassis
Color	Silver Gray
Installation	Desk mounting with anti-vibration non-slip foot pads, opt Din-Rail
Dimension(w*h*d)	172*116*54mm
Weight	0.89KG

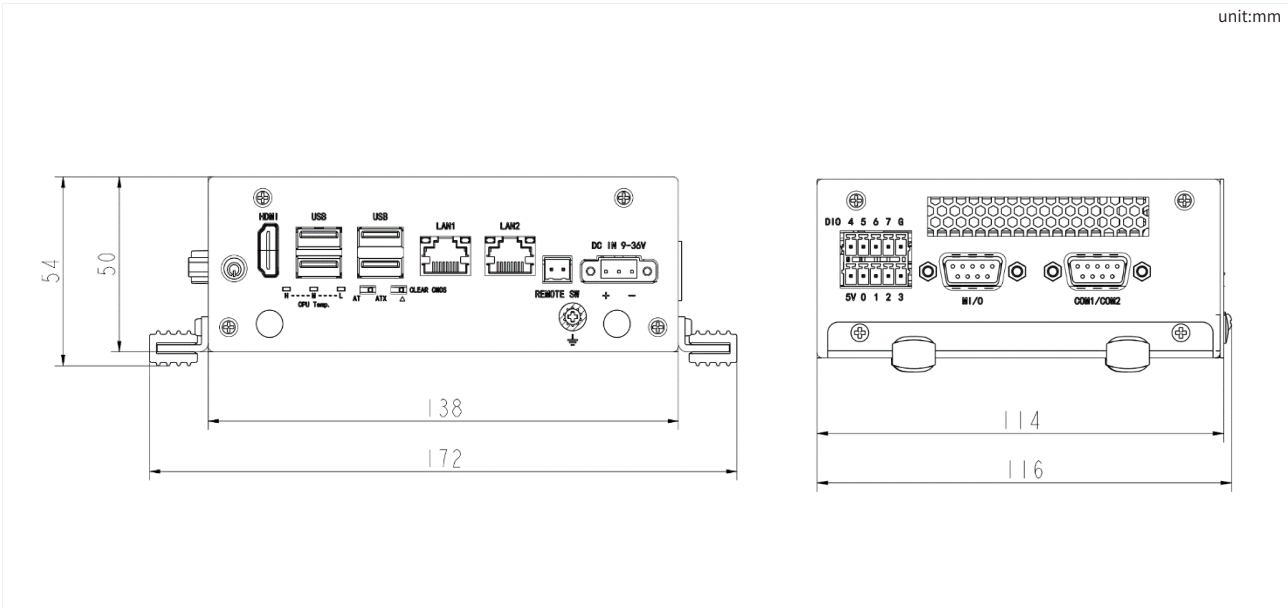
Environment

Operating Temp	-20°C~60°C, SSD, airflow;
Storage Temp	-40°C~85°C
Storage Humidity	10~95%@40°C, Non-condensing
Vibration	5 grms/5~500Hz/random/during operation (SSD) 1 grms/5~500Hz/random/during operation (HDD)
Shock	50g peak acceleration(duration 11ms) with SSD; 20g peak acceleration(duration 11ms) with HDD
Certificate/EMC	CE/FCC Class A

I/O View



Dimensions



Ordering Information

Model	Processor	Specifications
KMDA-3302-S001	Intel® Core I3-1115G4	1*DDR4 SODIMM, 2*LAN, 2*USB3.2, 2*USB2.0, 2*COM, 8bit DIO, 1*HDMI, 1*Mini PCIe, 1*M.2 B-key, 1*M.2 E-Key, 1*MIO, 1*mSATA, DC-IN 9-36V
KMDA-3302-S002	Intel® Core I5-1135G7	
KMDA-3302-S003	Intel® Core I7-1165G7	
KMDA-3302-S004	Intel® Celeron 6305E	
PA-60DC12		AC/DC power adapter, DC 12V/5A 60W + X Standard Power Cable

KMDA-5611-S001

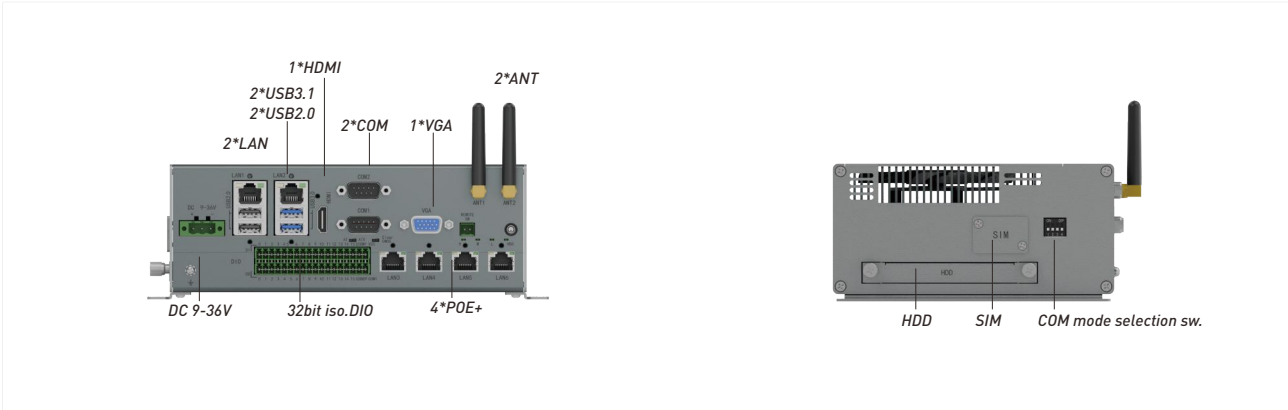
Intel® 8/9th Gen Coffee Lake LGA1151 CPU, 2*LAN, 4*POE+, 2*USB3.1, 3*USB2.0, 1*HDMI, 1*VGA, 2*COM, 32bit Iso. DIO, 1*mSATA, 1*Mini PCIe, 1*SATA3.0, DC 9-36V

Key Specification

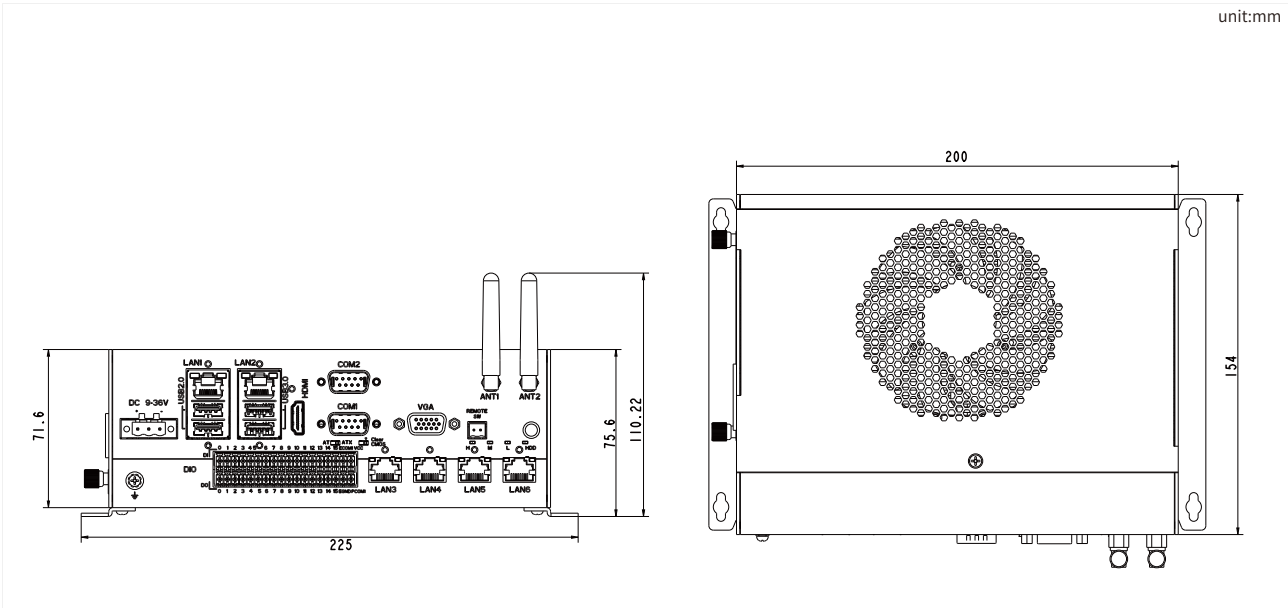
- Intel® 8/9th Gen Coffee Lake LGA1151 CPU
- Intel® H310 Chipset
- 2*DDR4 2400/2666MHz SODIMM, up to 64GB
- 1*HDMI + 1*VGA
- 2*LAN, 4*POE+, 2*USB3.1, 3*USB2.0, 32bit Iso. DIO
- 1*RS232/485 and 1*RS232 COM
- 1*Mini-PCIe full size, with SIM card slot, 4G/WIFI/PCIe module
- 1*2.5" Easy-plug SATA3.0 bay and 1*mSATA
- DC IN 9-36V, with OVP, OCP and SCP



I/O View



Dimensions



Ordering Information

Model	Processor	Specifications
KMDA-5611/S001	Intel® 8/9th Gen Coffee Lake LGA1151 CPU, H310 PCH	2*DDR4 SODIMM, 2*LAN, 4*POE+, 2*USB3.1, 3*USB2.0, 2*COM, 1*HDMI, 1*VGA, 32bit Iso. DIO, 1*2.5" SATA bay, 1*mSATA, 1*Mini PCIe, 1*SIM card slot, DC 9-36V
PA-120DC19		AC/DC power adapter, DC 19V/6.32A, 120W

Product Overview

KMDA-5611-S001 is a high-performance box computer with H310 chipset, powered by Intel® 8/9th Gen Coffee Lake CPU, multi IO interfaces and moderate size. It is suitable for machine vision and industrial control and other industries and fields.

Product Parameters

System

CPU	Intel® Coffee lake 9th/8th-Gen Core™ i9/i7/i5/i3/Pentium/Celeron LGA1151 CPU, up to 65W, Intel® H310 PCH
RAM	2*260-Pin SODIMM, DDR4 2666/2400MHz, 64GB max.
Graphics	Intel® UHD Graphics, Supports DirectX11.1, OpenGL5.0, OpenCL 2.1; HDMI:4096*2160@24Hz, VGA:1920*1200@60Hz
LAN	4*Intel I210AT POE+, 10-1000M, WOL; 1*Intel I210AT+1*Intel I219 LM, 10-1000M, WOL
USB	2* USB3.2(5G), 2*USB2.0, 1*USB2.0(built-in)
Display	1*HDMI+1*VGA
Audio	/
COM/Others	1*RS232/485, 1*RS232;
DIO	32 bit iso. DIO(16bit DI-2.5KV-PNP/NPN;16bit DO-2.5KV);

Storage

Storage	1*2.5" SATA3.0,6Gbps; 1*mSATA(SATA3.0),6Gbps
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Others

LED	1*Power LED, 1*HDD LED, 3*CPU Temp. LED
Switch	1*Power SW, Remote SW,1*AT/ATX SW, 1*Clear CMOS
WDT	programmable via software 1 to 255 second
TPM	(Opt.)TPM2.0

OS

OS	Windows 10 Enterprise & IOT Enterprise (64 位) (CFL-R) Ubuntu、SuSe、Redhat Enterprise 1,2 (Kernel 4.14) (CFL-R) Wind River VxWorks 7 (CFL-R)
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Expansion

Expansion	1*Mini-PCIe(+SIM),4G/WIFI/PCIe module
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Power

Power& TDP	DC IN 9-36V 3-pin Term. 5.0mm, OVP&OCP&SCP; TBD
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Mechanical

Structure	Aluminum-magnesium alloy, SGCC frame
Color	Silver Gray
Installation	Desktop Mounting/Wall(opt.), DIN-Rail(opt.)
Dimension	225*154*75.6mm
Weight	TBD

Environment

Operating Temp	-20°C~60°C – SSD, air flow; -10°C~55°C – HDD, air flow;
Storage Temp	-40°C~85°C
Storage Humidity	10~95%@40°C, Non-condensing
Vibration	5grms/5~500Hz/random/in working(SSD); 1grms/5~500Hz/random/in working(HDD)
Shock	50g peak acceleration(11ms duration)(SSD); 20g peak acceleration(11ms duration)(HDD)
Certificate/EMC	CE/FCC Class A

KMDA-5611-S002

Intel® 8/9th Gen Coffee Lake LGA1151 CPU, 2*LAN, 2*USB3.1, 8*USB3.0, 3*USB2.0, 1*HDMI, 1*VGA, 2*COM, 32bit Iso. DIO, 1*mSATA, 1*Mini PCIe, 1*SATA3.0, DC 9-36V

Key Specification

- Intel® 8/9th Gen Coffee Lake LGA1151 CPU
- Intel® H310 Chipset
- 2*DDR4 2400/2666MHz SODIMM, up to 64GB
- 1*HDMI + 1*VGA
- 2*LAN, 2*USB3.1, 8*USB3.0, 3*USB2.0, 32bit Iso. DIO
- 1*RS232/485 and 1*RS232 COM
- 1*Mini-PCIe full size, with SIM card slot, 4G/WIFI/PCIe module
- 1*2.5"Easy-plug SATA3.0 bay and 1*mSATA
- DC IN 9-36V, with OVP, OCP and SCP



Product Overview

KMDA-5611-S002 is a high-performance box computer with H310 chipset, powered by Intel® 8/9th Gen Coffee Lake CPU, multi IO interfaces and moderate size. It is suitable for machine vision and industrial control and other industries and fields.

Product Parameters

System

CPU	Intel® Coffee lake 9th/8th-Gen Core™ i9/i7/i5/i3/Pentium/Celeron LGA1151 CPU, up to 65W, Intel® H310 PCH
RAM	2*260-Pin SODIMM, DDR4 2666/2400MHz, 64GB max.
Graphics	Intel® UHD Graphics, Supports DirectX11.1, OpenGL5.0, OpenCL 2.1; HDMI:4096*2160@24Hz, VGA:1920*1200@60Hz
LAN	1*Intel I210AT, 10-1000M,WOL; 1*Intel I219 LM, 10-1000M, WOL
USB	8* USB3.0, 2*USB3.1(5G), 2*USB2.0, 1*USB2.0(built-in)
Display	1*HDMI+1*VGA
Audio	/
COM/Others	1*RS232/485, 1*RS232;
DIO	32 bit iso. DIO(16bit DI-2.5KV-PNP/NPN;16bit DO-2.5KV);

Storage

Storage	1*2.5" SATA3.0,6Gbps; 1*mSATA(SATA3.0),6Gbps
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Others

LED	1*Power LED, 1*HDD LED, 3*CPU Temp. LED
Switch	1*Power SW, Remote SW,1*AT/ATX SW, 1*Clear CMOS
WDT	programmable via software 1 to 255 second
TPM	(Opt.)TPM2.0

OS

OS	Windows 10 Enterprise & IOT Enterprise (64 位) (CFL-R) Ubuntu、SuSe、Redhat Enterprise 1,2 (Kernel 4.14) (CFL-R) Wind River VxWorks 7 (CFL-R)
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Expansion

Expansion	1*Mini-PCIe(+SIM),4G/WIFI/PCIe module
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Power

Power&TDP	DC IN 9-36V 3-pin Term. 5.0mm, OVP&OCP&SCP; TBD
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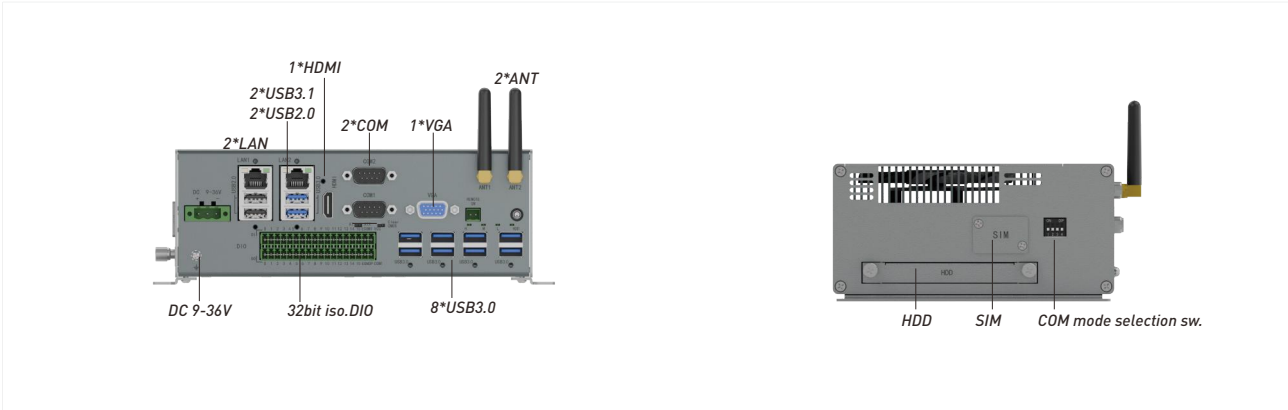
Mechanical

Structure	Aluminum-magnesium alloy, SGCC frame
Color	Silver Gray
Installation	Desktop Mounting/Wall(opt.), DIN-Rail(opt.)
Dimension	225*154*75.6mm
Weight	TBD

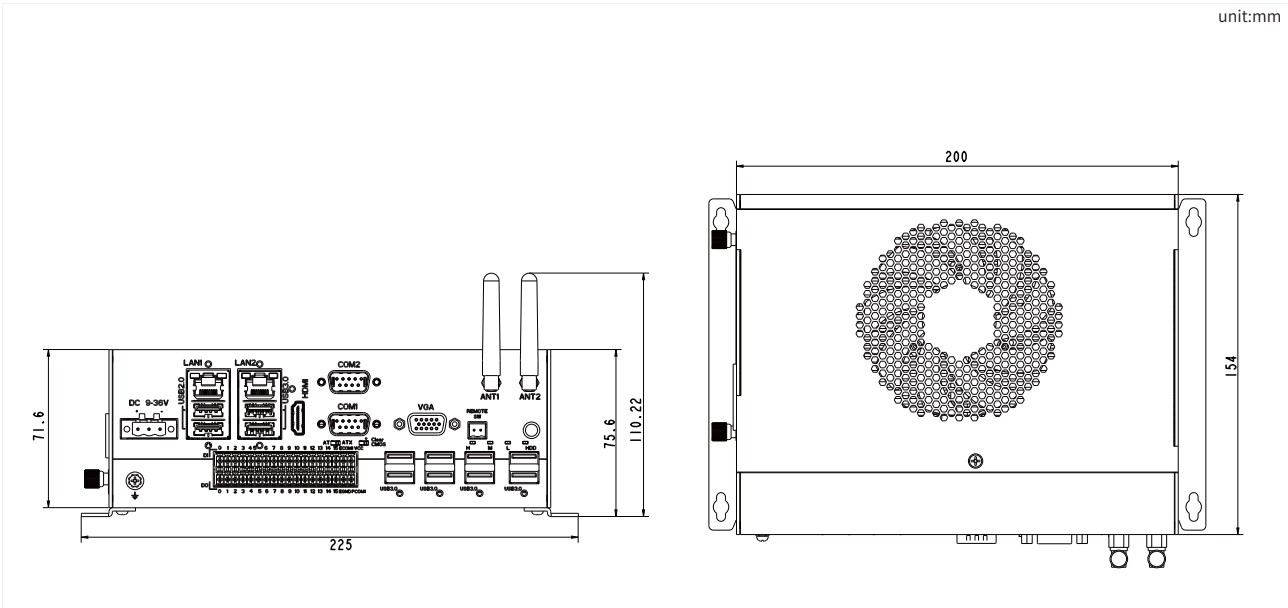
Environment

Operating Temp	-20°C~60°C – SSD, air flow; -10°C~55°C – HDD, air flow;
Storage Temp	-40°C~85°C
Storage Humidity	10~95%@40°C, Non-condensing
Vibration	5grms/5~500Hz/random/in working(SSD); 1grms/5~500Hz/random/in working(HDD)
Shock	50g peak acceleration(11ms duration)(SSD); 20g peak acceleration(11ms duration)(HDD)
Certificate/EMC	CE/FCC Class A

I/O View



Dimensions



Ordering Information

Model	Processor	Specifications
KMDA-5611/S002	Intel® 8/9th Gen Coffee Lake LGA1151 CPU, H310 PCH	2*DDR4 SODIMM, 2*LAN, 2*USB3.1, 8*USB3.0, 3*USB2.0, 2*COM, 1*HDMI, 1*VGA, 32bit Iso. DIO, 1*2.5"SATA bay, 1*mSATA, 1*Mini PCIe, 1*SIM card slot, DC 9-36V
PA-120DC19		AC/DC power adapter, DC 19V/6.32A,120W

KMDA-6611-S001

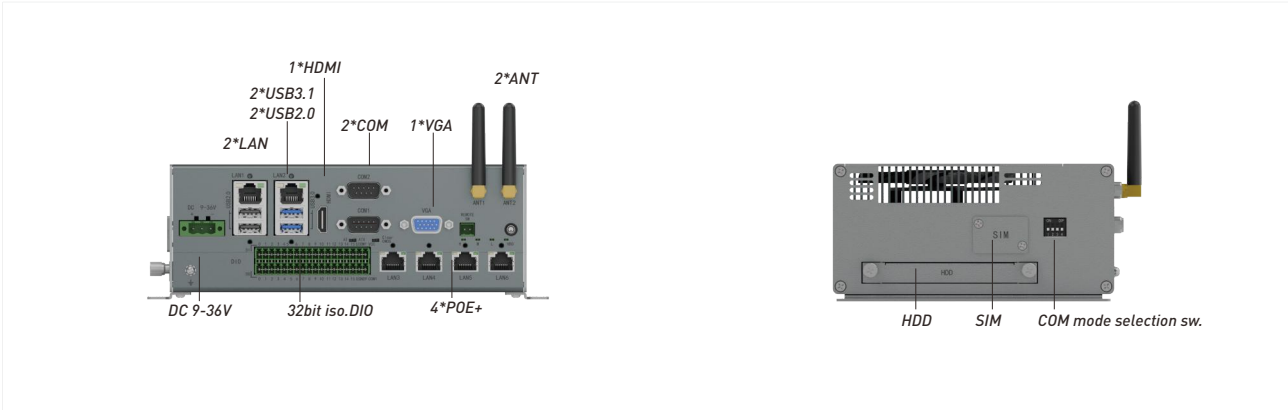
Intel® 10th Gen Comet Lake LGA1200 CPU, 2*LAN, 4*POE+, 2*USB3.2, 3*USB2.0, 1*HDMI, 1*VGA, 2*COM, 32bit Iso. DIO, 1*mSATA, 1*Mini PCIe, 1*SATA3.0, DC 9-36V

Key Specification

- Intel® 10th Gen Comet Lake LGA1200 CPU
- Intel® H420E Chipset
- 2*DDR4 2933MHz SODIMM, up to 64GB
- 1*HDMI + 1*VGA
- 2*LAN, 4*POE+, 2*USB3.2, 3*USB2.0, 32bit Iso. DIO
- 1*RS232/485 and 1*RS232 COM
- 1*Mini-PCIe full size, with SIM card slot, 4G/WIFI/PCIe module
- 1*2.5" Easy-plug SATA3.0 bay and 1*mSATA
- DC IN 9-36V, with OVP, OCP and SCP



I/O View



Product Overview

KMDA-6611-S001 is a high-performance box computer with H420E chipset, powered by Intel® 10th Gen Comet Lake CPU, multi IO interfaces and moderate size. It is suitable for machine vision and industrial control and other industries and fields.

Product Parameters

System

CPU	Intel® Comet lake 10th Gen Core™ i9/i7/i5/i3/Pentium/Celeron LGA1200 CPU, up to 65W, Intel® H420E PCH
RAM	2*260-Pin SODIMM, DDR4 2933MHz, 64GB max.
Graphics	Intel® UHD Graphics, Supports DirectX12, OpenGL4.5; HDMI:4096*2160@30Hz, VGA:1920*1200@60Hz
LAN	4*Intel I210AT POE+, 10-1000M, WOL; 1*Intel I210AT+1*Intel I219 LM, 10-1000M, WOL
USB	2* USB3.2(5G), 2*USB2.0, 1*USB2.0(built-in)
Display	1*HDMI+1*VGA
Audio	/
COM/Others	1*RS232/485, 1*RS232;
DIO	32 bit iso. DIO(16bit DI-2.5KV-PNP/NPN;16bit DO-2.5KV);

Storage

Storage	1*2.5" SATA3.0,6Gbps; 1*mSATA(SATA3.0),6Gbps
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Others

LED	1*Power LED, 1*HDD LED, 3*CPU Temp. LED
Switch	1*Power SW, Remote SW, 1*AT/ATX SW, 1*Clear CMOS
WDT	programmable via software 1 to 255 second
TPM	(Opt.)TPM2.0

OS

OS	Windows11, Windows 10 IoT Enterprise (64-bit), Windows Server 2019, Ubuntu, SUSE, Redhat Enterprise, Wind River Linux, Yocto Project (64-bit), Wind River VxWorks 7
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Expansion

Expansion	1*Mini-PCIe(+SIM),4G/WIFI/PCIe module
Power&TDP	DC IN 9-36V 3-pin Term. 5.0mm, OVP&OCP&SCP; TBD

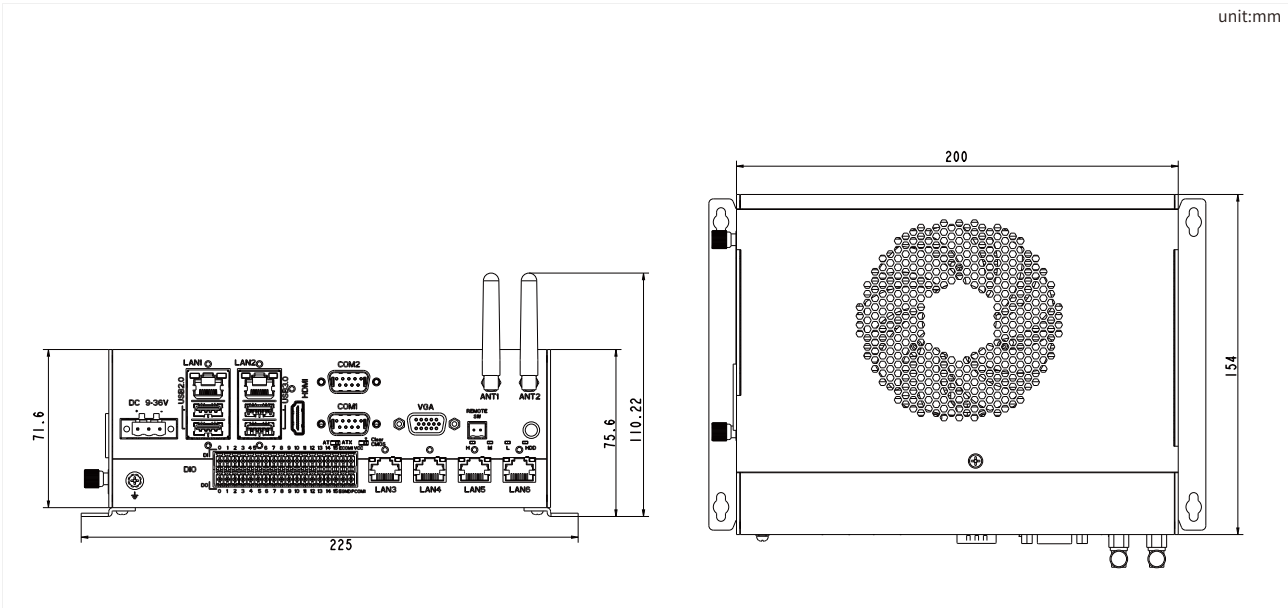
Mechanical

Structure	Aluminum-magnesium alloy, SGCC frame
Color	Silver Gray
Installation	Desktop Mounting/Wall(opt.), DIN-Rail(opt.)
Dimension	225*154*75.6mm
Weight	TBD

Environment

Operating Temp	-20°C~60°C – SSD, air flow; -10°C~55°C – HDD, air flow;
Storage Temp	-40°C~85°C
Storage Humidity	10~95%@40°C, Non-condensing
Vibration	5grms/5~500Hz/random/in working(SSD); 1grms/5~500Hz/random/in working(HDD)
Shock	50g peak acceleration(11ms duration)(SSD); 20g peak acceleration(11ms duration)(HDD)
Certificate/EMC	CE/FCC Class A

Dimensions



Ordering Information

Model	Processor	Specifications
KMDA-6611/S001	Intel® 10th Gen Comet Lake LGA1200 CPU, H420E PCH	2*DDR4 SODIMM, 2*LAN, 4*POE+, 2*USB3.2, 3*USB2.0, 2*COM, 1*HDMI, 1*VGA, 32bit Iso. DIO, 1*2.5"SATA bay, 1*mSATA, 1*Mini PCIe, 1*SIM card slot, DC 9-36V
PA-120DC19		AC/DC power adapter, DC 19V/6.32A,120W

KMDA-6611-S002

Intel® 10th Gen Comet Lake LGA1200 CPU, 2*LAN, 2*USB3.1, 8*USB3.0, 3*USB2.0, 1*HDMI, 1*VGA, 2*COM, 32bit Iso. DIO, 1*mSATA, 1*Mini PCIe, 1*SATA3.0, DC 9-36V

Key Specification

- Intel® 10th Gen Comet Lake LGA1200 CPU
- Intel® H420E Chipset
- 2*DDR4 2933MHz SODIMM, up to 64GB
- 1*HDMI + 1*VGA
- 2*LAN, 2*USB3.1, 8*USB3.0, 3*USB2.0, 32bit Iso. DIO
- 1*RS232/485 and 1*RS232 COM
- 1*Mini-PCIe full size, with SIM card slot, 4G/WIFI/PCIe module
- 1*2.5" Easy-plug SATA3.0 bay and 1*mSATA
- DC IN 9-36V, with OVP,OCP and SCP



Product Overview

KMDA-6611-S002 is a high-performance box computer with H420E chipset, powered by Intel® 10th Gen Comet Lake CPU, multi IO interfaces and moderate size. It is suitable for machine vision and industrial control and other industries and fields.

Product Parameters

System

CPU	Intel® Comet lake 10th Gen Core™ i9/i7/i5/i3/Pentium/Celeron LGA1200 CPU, up to 65W, Intel® H420E PCH
RAM	2*260-Pin SODIMM, DDR4 2933MHz, 64GB max.
Graphics	Intel® UHD Graphics, Supports DirectX12, OpenGL4.5; HDMI:4096*2160@30Hz, VGA:1920*1200@60Hz
LAN	1*Intel I210AT, 10-1000M,WOL; 1*Intel I219 LM, 10-1000M, WOL
USB	8* USB3.0, 2*USB3.1(5G), 2*USB2.0, 1*USB2.0(built-in)
Display	1*HDMI+1*VGA
Audio	/
COM/Others	1*RS232/485, 1*RS232;
DIO	32 bit iso. DIO(16bit DI-2.5KV-PNP/NPN;16bit DO-2.5KV);

Storage

Storage	1*2.5" SATA3.0,6Gbps; 1*mSATA(SATA3.0),6Gbps
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Others

LED	1*Power LED, 1*HDD LED, 3*CPU Temp. LED
Switch	1*Power SW, Remote SW,1*AT/ATX SW, 1*Clear CMOS
WDT	programmable via software 1 to 255 second
TPM	(Opt.)TPM2.0

OS

OS	Windows11,Windows 10 IoT Enterprise (64-bit), Windows Server 2019, Ubuntu, SUSE, Redhat Enterprise, Wind River Linux, Yocto Project (64-bit), Wind River VxWorks 7
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Expansion

Expansion	1*Mini-PCIe(+SIM),4G/WIFI/PCIe module
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Power

Power&TDP	DC IN 9-36V 3-pin Term. 5.0mm, OVP&OCP&SCP; TBD
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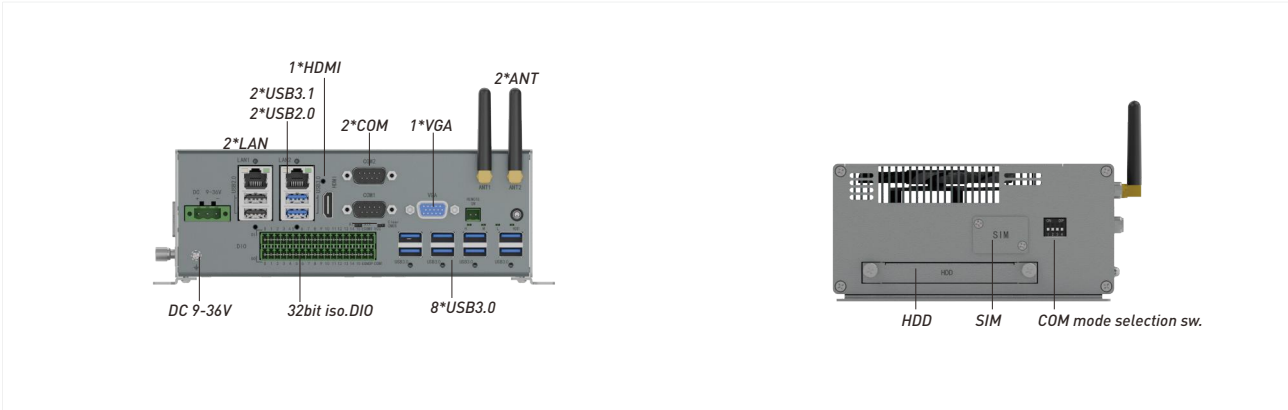
Mechanical

Structure	Aluminum-magnesium alloy, SGCC frame
Color	Silver Gray
Installation	Desktop Mounting/Wall(opt.), DIN-Rail(opt.)
Dimension	225*154*75.6mm
Weight	TBD

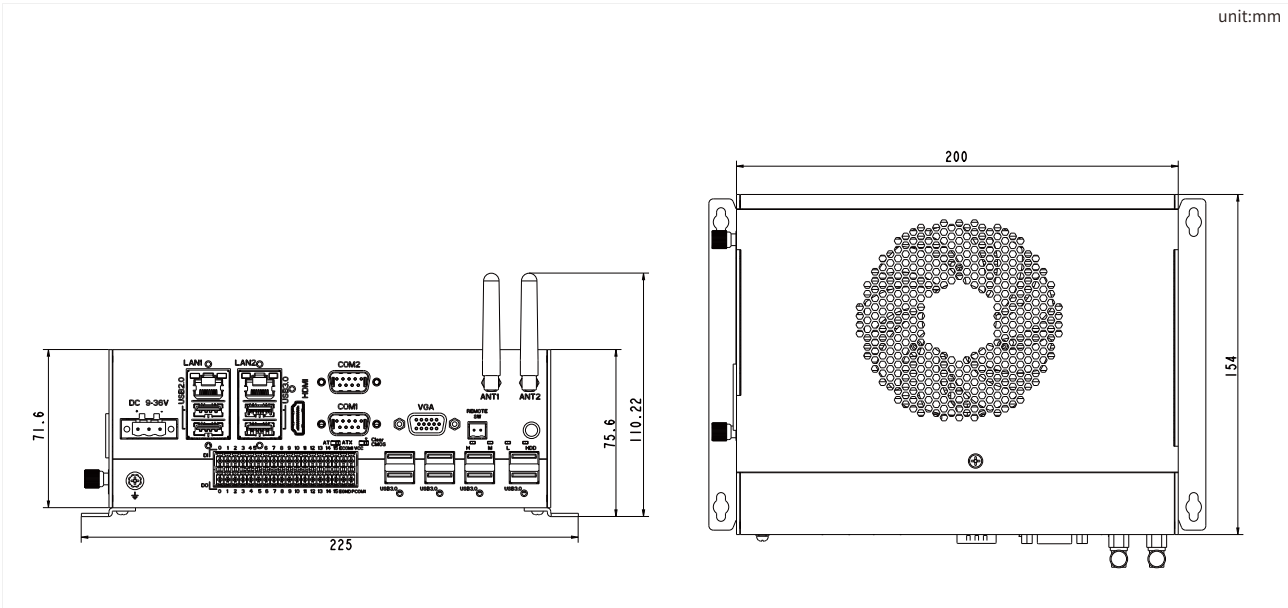
Environment

Operating Temp	-20°C~60°C – SSD, air flow; -10°C~55°C – HDD, air flow;
Storage Temp	-40°C~85°C
Storage Humidity	10~95%@40°C, Non-condensing
Vibration	5grms/5~500Hz/random/in working(SSD); 1grms/5~500Hz/random/in working(HDD)
Shock	50g peak acceleration(11ms duration)(SSD); 20g peak acceleration(11ms duration)(HDD)
Certificate/EMC	CE/FCC Class A

I/O View



Dimensions



Ordering Information

Model	Processor	Specifications
KMDA-6611/S002	Intel® 10th Gen Comet Lake LGA1200 CPU, H420E PCH	2*DDR4 SODIMM, 2*LAN, 2*USB3.1, 8*USB3.0, 3*USB2.0, 2*COM, 1*HDMI, 1*VGA, 32bit Iso. DIO, 1*2.5"SATA bay, 1*mSATA, 1*Mini PCIe, 1*SIM card slot, DC 9-36V
PA-120DC19		AC/DC power adapter, DC 19V/6.32A,120W

KMDA-7611-S

Intel® 12/13 Gen Alder Lake-S/Raptor Lake-S LGA1700 CPU, 4*LAN, 4*USB3.2, 1*HDMI, 6*COM, 8bit DIO, 1*mSATA, 2*Mini PCIe, 1*M.2 B-Key, 1*SATA3.0, DC 9-36V.

Key Specification

- Intel® 12/13th Gen Alder lake-S/Raptor Lake-S LGA1700 CPU
- Intel® H610 Chipset
- 2*DDR5 4800MHz SODIMM, up to 64GB
- 1*HDMI
- 4*LAN, 4*USB3.2, 1*USB2.0, 8bit Iso. DIO
- 1*MIC+1*LINE OUT
- 2*RS232/422/485 and 4*RS232 COM
- 2*Mini-PCIe full size, function module that supports PCIe signals
- 1*M.2 3052/3042 B-Key with a SIM card slot, supports 5G NR module
- 1*2.5"Easy-plug SATA3.0 bay and 1*mSATA
- DC IN 9-36V, with OVP,OCP and SCP



Product Overview

KMDA-7611-S001 is a high-performance box computer with H610 chipset, powered by Intel® 12/13th Gen Alder lake-S/Raptor Lake-S CPU, multi IO interfaces and moderate size. It is suitable for unmanned forklifts, machine vision, and industrial control and other industries and fields.

Product Parameters

System

CPU	Intel® Alder lake-S/Raptor Lake-S 12/13th Gen Core™ i9/i7/i5/i3/Pentium/Celeron LGA1700 CPU, Intel® H610 PCH
RAM	2*262-Pin SODIMM, DDR5 4800MHz, 64GB max.
Graphics	Intel® UHD Graphics, Supports DirectX 12, OpenGL 4.5, OpenCL 3.0; HDMI:4096*2160@60Hz
LAN	3*Intel I210AT, 10-1000M,WOL; 1*Intel I219 LM, 10-1000M, WOL
USB	2* USB3.2(10G), 2*USB3.2(5G), 1*USB2.0(built-in)
Display	HDMI
Audio	Realtek ALC897, 1*Line out+1*MIC
COM/Others	2*RS232/422/485, 4*RS232;
DIO	8bit isolatedDIO(4bit DI-2.5KV-PNP/NPN;4bit DO-2.5KV);
Storage	1*2.5" SATA3.0; 1*mSATA(SATA3.0)

Others

LED	1*Power LED, 1*HDD LED, 3*CPU Temp. LED
Switch	1*Power SW, Remote SW,1*AT/ATX SW, 1*Clear CMOS
WDT	programmable via software 1 to 255 second
TPM	(Opt.)TPM2.0

OS

OS	Windows 11, Windows 10 IoT Enterprise 2021 LTSC, Ubuntu, SuSe, Red Hat Enterprise, Wind River Linux, Wind River VxWorks 7
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Expansion

Expansion	2*Mini-PCIe(PCIeX1/USB2.0),PCIe module; 1*M.2 3052/3042 B-Key(PCIeX1/USB2.0),5G NR
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Power

Power& TDP	DC IN 9-36V 3-pin Term. 5.0mm, OVP&OCP&SCP TDP:105.84W (Intel I3-12100/128GB SSD/32GB RAM)
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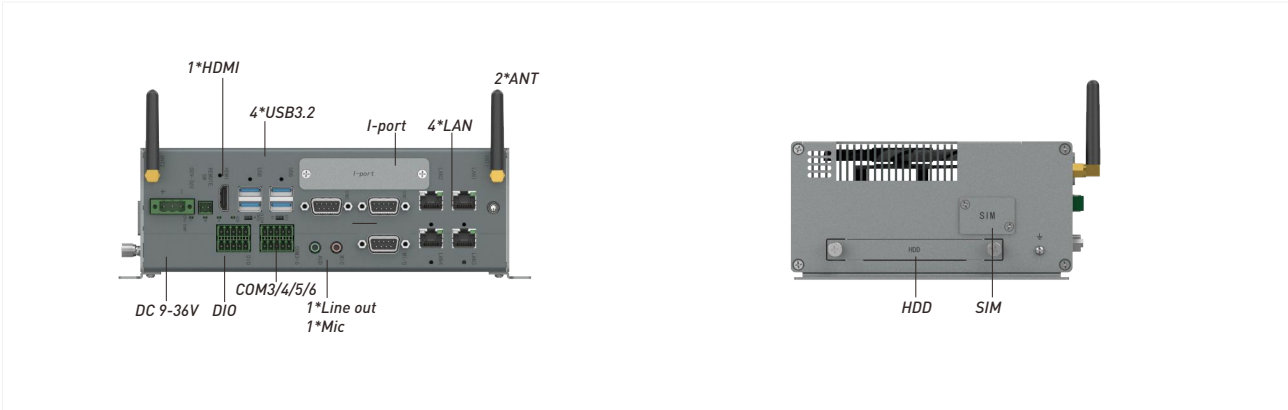
Mechanical

Structure	Aluminum-magnesium alloy, SGCC frame
Color	Silver Gray
Installation	Desktop Mounting/Wall(opt.), DIN-Rail(opt.)
Dimension	238*169*75.6mm
Weight	2.55KG

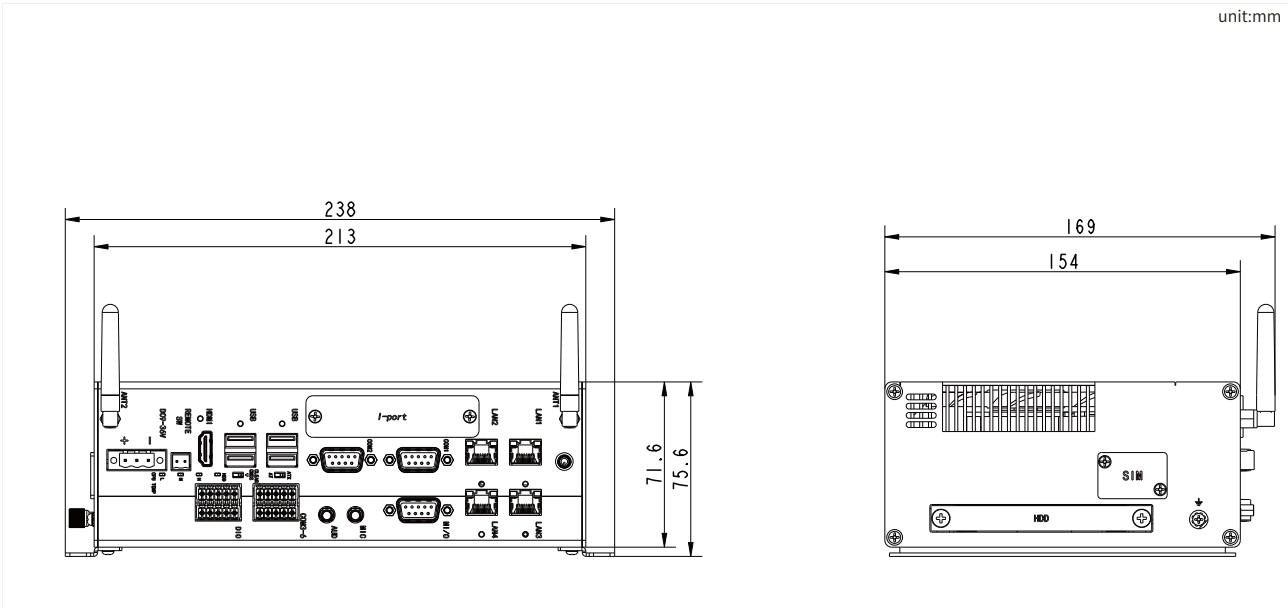
Environment

Operating Temp	-20°C~60°C – SSD, air flow; -10°C~55°C – HDD, air flow;
Storage Temp	-40°C~85°C
Storage Humidity	10~95%@40°C, Non-condensing
Vibration	5grms/5~500Hz/random/in working(SSD); 1grms/5~500Hz/random/in working(HDD)
Shock	50g peak acceleration(11ms duration)(SSD); 20g peak acceleration(11ms duration)(HDD)
Certificate/EMC	CE/FCC Class A

I/O View



Dimensions



Ordering Information

Model	Processor	Specifications
KMDA-7611/S001	Intel®12/13 Gen Alderlake-S/Raptor Lake-S LGA1700 CPU, H610 PCH	2*DDR5 SODIMM, 4*LAN, 4*USB3.2, 1*USB2.0, 6*COM,1*HDMI, Line out & Mic, 8bit Iso.DIO, 1*I-Port, 1*M I/O, 1*mSATA, 1*2.5" SATA bay, 2*Mini PCIe, 1*M.2 B-Key, 1*SIM, DC 9-36V.
PA-120DC19		AC/DC power adapter, DC 19V/6.32A,120W

KMDA-7611-T

Intel® 12/13th Gen Alder Lake-S/Raptor Lake-S LGA1700 CPU, 2*LAN, 4*USB3.2, 1*HDMI, 2*COM, 1*mSATA, 2*Mini PCIe, 1*M.2 B-Key, DC 9-36V

Key Specification

- Intel® 12/13th Gen Alder lake-S/Raptor Lake-S LGA1700 CPU
- Intel® H610 Chipset
- 2*DDR5 4800MHz SODIMM, up to 64GB
- 1*HDMI
- 2*LAN, 4*USB3.2, 1*USB2.0, 8bit Iso. DIO
- 2*RS232/422/485 COM
- 2*Mini-PCIe full size, function module that supports PCIe signals
- 1*M.2 3052/3042 B-Key with a SIM card slot, supports 5G NR module
- 1*mSATA
- DC IN 9-36V, with OVP,OCP and SCP



Product Overview

KMDA-7611-T001 is a high-performance box computer with H610 chipset, powered by Intel® 12/13th Gen Alder lake-S/Raptor Lake-S CPU, multi IO interfaces and moderate size. It is suitable for unmanned forklifts, machine vision, and industrial control and other industries and fields.

Product Parameters

System

CPU	Intel® Alder lake-S/Raptor Lake-S 12/13th Gen Core™ i9/i7/i5/i3/Pentium/Celeron LGA1700 CPU, Intel® H610 PCH
RAM	2*262-Pin SODIMM, DDR5 4800MHz, 64GB max.
Graphics	Intel® UHD Graphics, Supports DirectX 12, OpenGL 4.5, OpenCL 3.0; HDMI:4096*2160@60Hz
LAN	1*Intel I210AT, 10-1000M,WOL; 1*Intel I219 LM, 10-1000M, WOL
USB	2* USB3.2(10G), 2*USB3.2(5G), 1*USB2.0(built-in)
Display	HDMI
Audio	/
COM/Others	2*RS232/422/485
DIO	8bit iso. DIO(4bit DI:2.5KV-PNP/NPN;4bit DO:2.5KV);

Storage

Storage	1*mSATA(SATA3.0)
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Others

LED	1*Power LED, 1*HDD LED, 3*CPU Temp. LED
Switch	1*Power SW, Remote SW,1*AT/ATX SW, 1*Clear CMOS
WDT	programmable via software 1 to 255 second
TPM	(Opt.)TPM2.0

OS

OS	Windows 11, Windows 10 IoT Enterprise 2021 LTSC, Ubuntu, SuSe, Red Hat Enterprise, Wind River Linux, Wind River VxWorks 7
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Expansion

Expansion	2*Mini-PCIe(PCIeX1/USB2.0),PCIe module; 1*M.2 3052/3042 B-Key(PCIeX1/USB2.0+SIM),5G NR
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Power

Power&TDP	DC IN 9-36V 3-pin Term. 5.0mm, OVP&OCP&SCP TDP:105.84W (Intel I3-12100/128GB SSD/32GB RAM)
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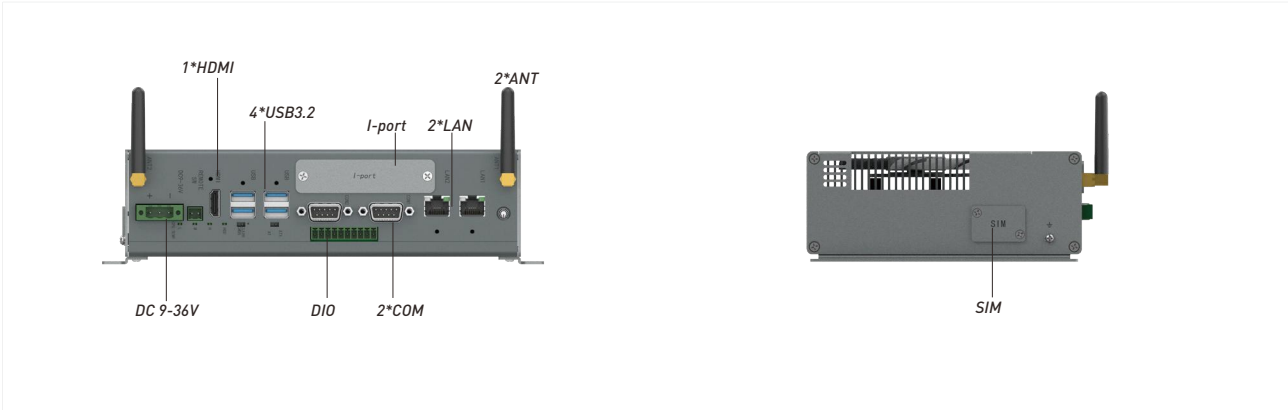
Mechanical

Structure	Aluminum-magnesium alloy, SGCC frame
Color	Silver Gray
Installation	Desktop Mounting/Wall(opt.), DIN-Rail(opt.)
Dimension	238*169*61.8mm
Weight	2.32KG

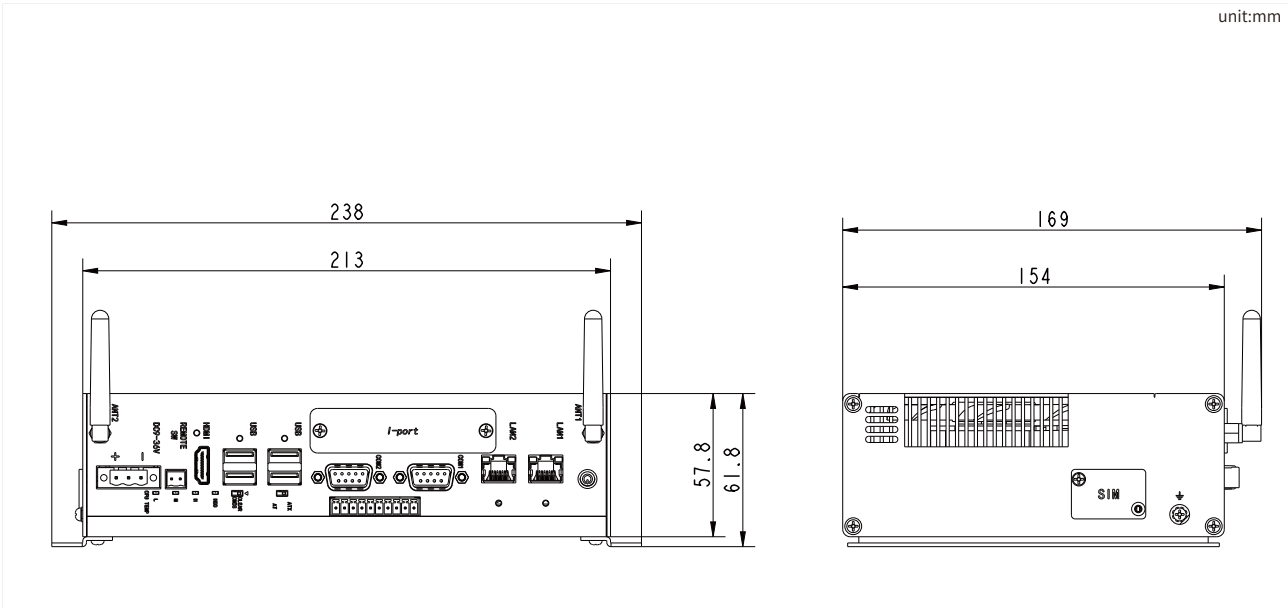
Environment

Operating Temp	-20°C~60°C – SSD, air flow
Storage Temp	-40°C~85°C
Storage Humidity	10~95%@40°C, Non-condensing
Vibration	5grms/5~500Hz/random/in working(SSD)
Shock	50g peak acceleration(11ms duration)(SSD)
Certificate/EMC	CE/FCC Class A

I/O View



Dimensions



Ordering Information

Model	Processor	Specifications
KMDA-7611/T001	Intel®12/13 Gen Alderlake-S/Raptor Lake-S LGA1700 CPU, H610 PCH	2*DDR5 SODIMM, 2*LAN, 4*USB3.2, 1*USB2.0, 2*COM, 1*HDMI, 8bit Iso. DIO, 1*I-Port, 1*mSATA, 2*Mini PCIe, 1*M.2 B-Key, 1*SIM card slot, DC 9-36V
PA-120DC19		AC/DC power adapter, DC 19V/6.32A,120W

SCC-3116

Intel® Baytrail Celeron J1900 CPU, 2/3*LAN, 7*USB, 6*COM, 1*HDMI+1*VGA dual display, optional 8-bit DIO, DC IN 9~36V

Key Specification

- Aluminum Chassis, fanless heat dissipation design
- Intel® Baytrail Celeron J1900 2.0-2.42G CPU
- 1*DDR3L 1333MHz SODIMM RAM, 8GB max.
- 1*HDMI &1*VGA, dual display
- 2/3*Gig LAN, 1*USB3.0, 6*USB2.0(one build-in)
- 6*COM, optional 8-bit DIO, 1*Line out,1*Mic
- 1*Mini-PCIe(PCIeX1+USB signal), 1*PS/2
- 1*mSATA, 1*2.5’ SATA bay, anti-vibration design, DC 9~36V wide voltage power supply



Product Overview

SCC-3116 is a multi-IO design industrial box PC with aluminum chassis and fanless design. Equipped with Intel Baytrail Celeron J1900 CPU, DDR3L 1333Mhz SODIMM, Max. support upto 8GB. It is economical and high reliability, suitable for equipment automation, IoT signal acquisition and other applications.

Product Parameters

System

CPU	Intel® Baytrail-D Celeron J1900 , Main frequency 2.0~2.42GHz, quad-core, four-thread, 2M cache, 22nm, TDP 10W
RAM	1*DDR3L, 1333MHz SODIMM, Max. 8GB
Graphics	Intel HD Graphics, VGA : 1920*1200@60Hz, HDMI:1920*1080@60Hz, support 2 independent displays support OpenGL 3.2, DirectX 11, OpenCL 1.2, MPGE2/H.264
LAN	3*Intel I211AT PCIe Gig. Ethernet, 10/100/1000Mbps
USB	1* USB3.0, 6*USB2.0 , 1*USB2.0 (build-in)
Display	1*HDMI+1*VGA
Audio	1*Line out+1*Mic,Realtek ALC662VD
COM/ Others	4*RS232/422/485, 2*RS232, 1*PS/2 (Mouse and keyboard)
DIO	8-bit DIO, programmable input and output (DB9)

Storage

Storage	1*2.5" SATA2,HDD/SSD;1*mSATA full-height card,Support AHCI mode
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Others

LED	1*power LED, 1*HDD LED, 3*CPU temperature LED
Switch	1*Power SW,1*Remote SW,1*AT/ATX SW, 1*Clear CMOS SW
WDT	programmable via software 1 to 255 second

OS

OS	Windows 7, Windows 8.1, Windows 10, Linux Fedora Ubuntu
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Expansion

Expansion	1*Mini PCIe, with SIM slot , support 4G LTE/Wifi/BT,
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Power Supply

Power&	DC IN 9-36V D-Jack/M8,with short circuit protection, over voltage and over current protection,
TDP	14.4W(2.5" HDD)

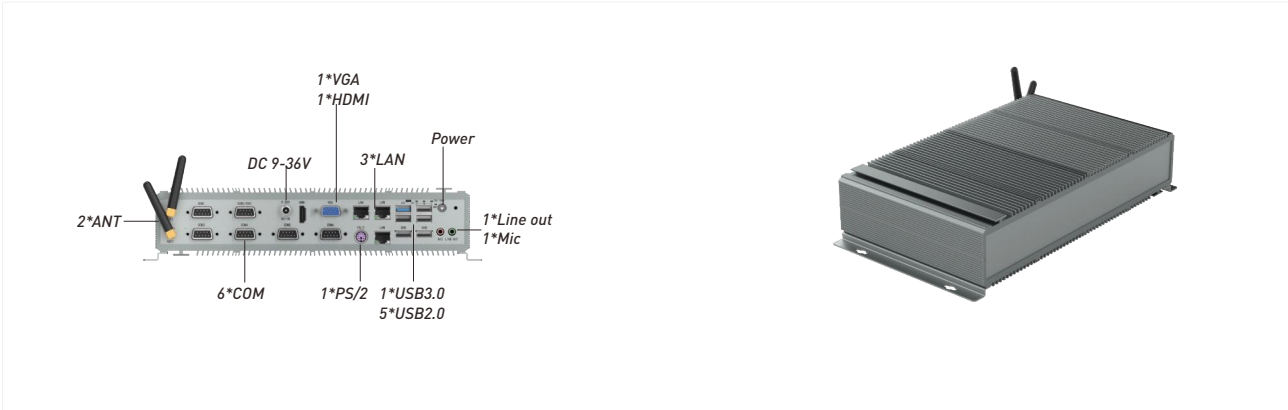
Mechanical

Structure	Aluminum Chassis, SGCC frame
Color	Silver gray
Installation	Desktop mounting
Dimension(W*H*D)	268*160*57.6mm
Weight	2.15KG

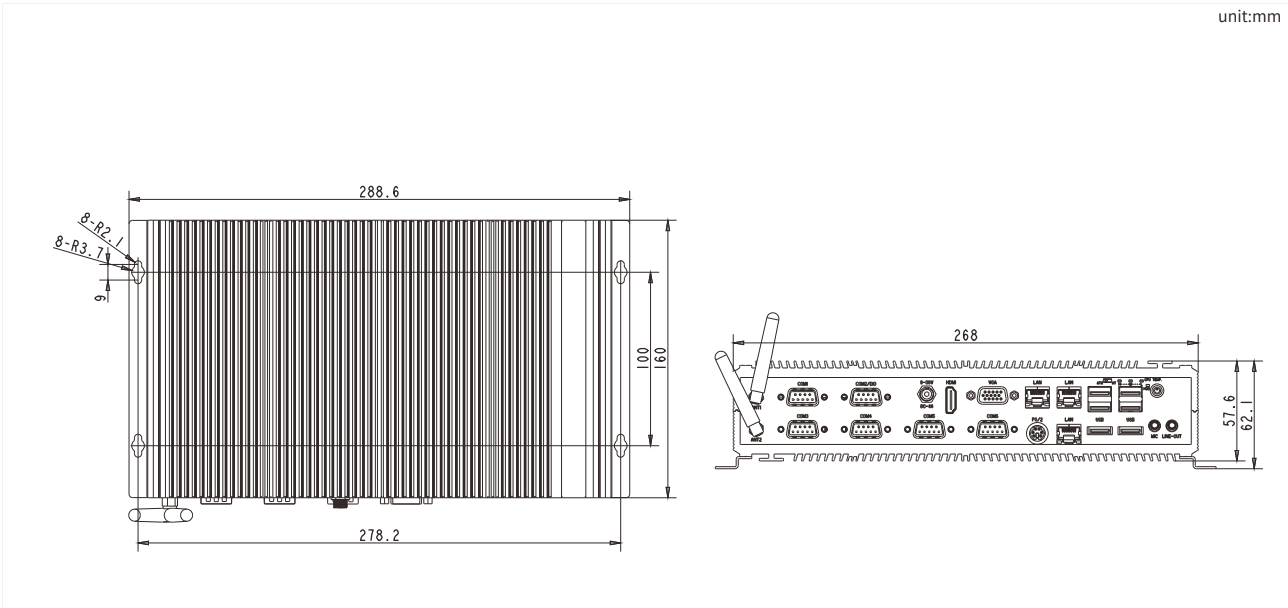
Environment

Operating Temp	-20°C~65°C SSD, with air flow, -10°C~55°C HDD, with air flow;
Storage Temp	-40°C~85°C
Storage Humidity	10~90%@40°C, No condensation
Vibration	5 grms/5~500Hz/random/during operation (SSD) 1 grms/5~500Hz/random/during operation (HDD)
Shock	50g peak acceleration(duration 11ms) with SSD; 20g peak acceleration(duration 11ms) with HDD
Certificate/EMC	CE/FCC Class A

I/O View



Dimensions



Ordering Information

Model	Processor	Specifications
SCC-3116/T002	Intel® J1900 CPU	3*LAN, 1*USB3.0, 6*USB2.0, 6*COM, optional 8-bit DIO, 1*Mini PCIe, 1*HDMI,1*VGA, 1*PS/2, 1*Line out, 1*Mic , 1*2.5"SATA2 bay, 1*mSATA, DC 9~36V
PA-60DC12		AC/DC adapter, DC19V/6.32A 120W

ECC-U5000

Intel® Elkhart lake Soc CPU, 1*HDMI, 8*COM, 3*LAN, 2*USB3.1+2*USB2.0, 8*DI+6*DO, 2*CAN, 2*MiniPCle, 1*mSATA, DC12V/9~36V(Opt.)

Key Specification

- Intel® Elkhart lake Soc CPU
- Intel® CPU SoC MCP, Fanless cooling design
- 1*DDR4 3200MHz SODIMM, Up to 32GB
- 1*HDMI, 1*mSATA
- 2*MiniPCle(1*MiniPCle supports 4G, and the other with PCIeX1 and USB2.0 signals)
- 8*COM(2*RS232/485+6*RS485)Tape isolation, 3*LAN,
- 2*USB3.2+2*USB2.0
- 8*DI+6*DO indicates isolation,2*CAN indicates isolation
- DC 12V or 9 -36V(optional) power input



Product Overview

ECC-U5000,equipped with Intel® Elkhart lake U series processor, with a comprehensive I/O interface, built-in 2*Mini PCle expansion module, DC12V or 9~36V (optional) wide voltage DC power supply optional, the product adopts SGCC box design, exquisite and compact size. The main application scenarios are energy storage system integration and manufacturing.

Product Parameters

System

CPU	Intel® Elkhart lake SoC CPU: Celeron J6412 2.0~2.6GHz
RAM	1*DDR4 3200 MHz SODIMM, 32GB max.
Graphics	Intel UHD Graphics / Iris® Xe Graphics, Supports Intel DL boost, DirectX12.1, OpenGL 4.6 and OpenCL 3.0, HDMI:4096*2304@60Hz
LAN	3*RTL811H-VB, 10-1000M
USB	2* USB3.1; 2*USB2.0
Display	1*HDMI
Audio	/
COM/Others	2*RS232/485, 6*RS485; 2*CAN
DIO	8*DI+6*DO

Storage

Storage	1*mSATA,SATA3.0 ,6 Gbps
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Others

LED	1*HDD LED
Switch	1*Power SW, 1*AT/ATX SW, 1*Clear CMOS SW
WDT	programmable via software 1 to 255 second

OS

OS	Windows 10, Linux
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Expansion

Expansion	1*Mini PCle,(PCIeX1/USB2.0+SIM),4G LTE/Wifi/BT; 1*Mini PCle,(PCIeX1/USB2.0)
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Power Supply

Power&	DC-IN: 12V/9~36V (Opt.), OVP, OCP;
TDP	18.35W(CPU Celeron J6412 @2.00GHz, 8G DDR4, 128G mSATA)

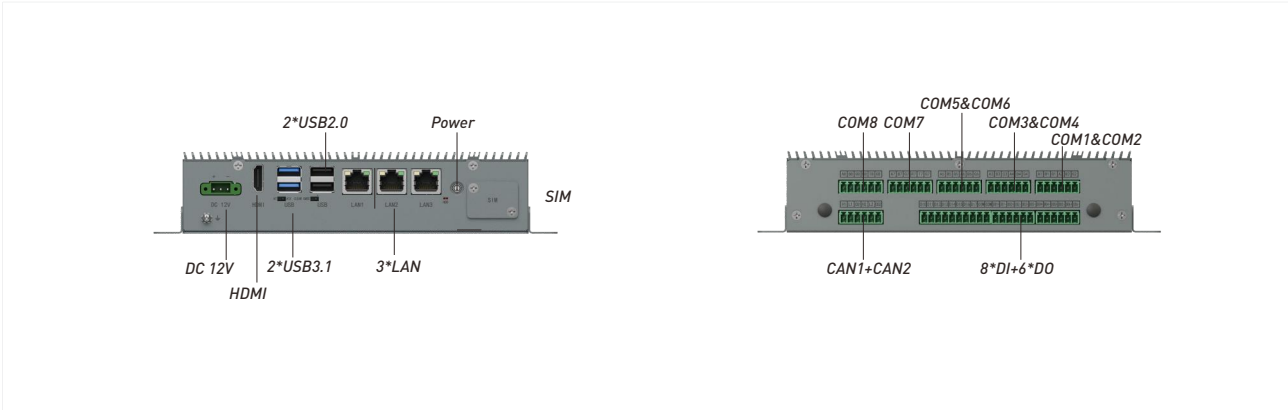
Mechanical

Structure	Aluminum rectangular profile cooling housing, SGCC box
Color	Silver Gray
Installation	Horizontal desktop installation
Dimension(W*H*D)	222*140*45mm
Weight	1.32KG

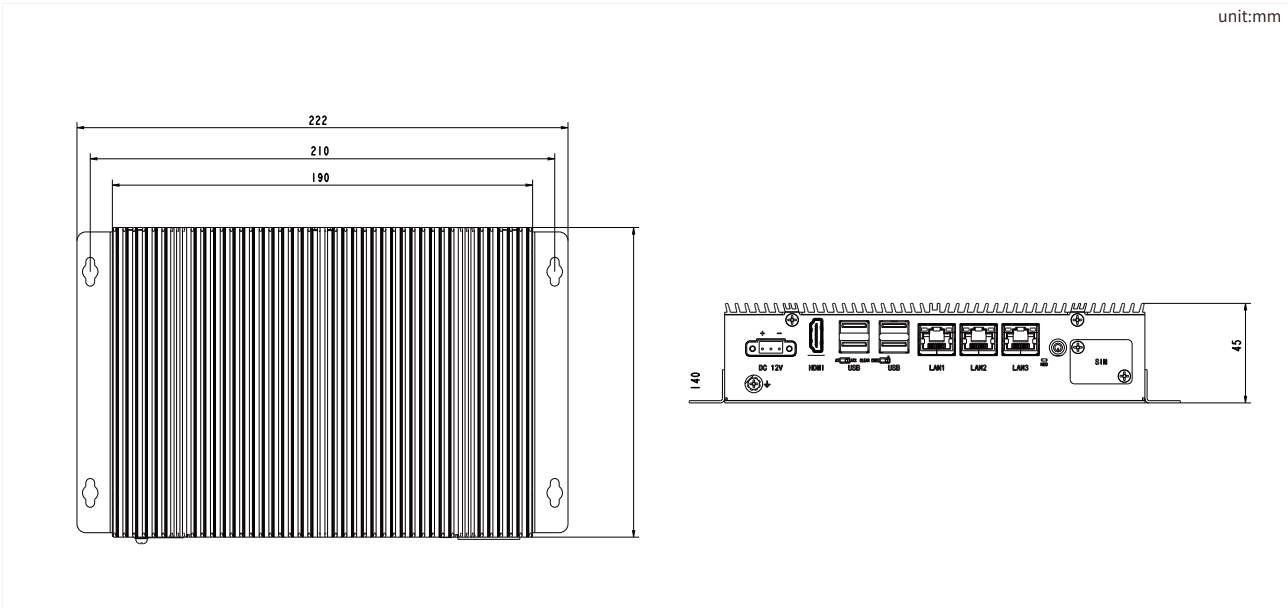
Environment

Operating Temp	-20°C~60°C
Storage Temp	-40°C~85°C
Storage Humidity	10~95%@40°C, non-condensing
Vibration	5 grms/5~500Hz/random/during operation (SSD) 1 grms/5~500Hz/random/during operation (HDD)
Shock	50g peak acceleration(duration 11ms) with SSD; 20g peak acceleration(duration 11ms) with HDD
Certificate/EMC	CE/FCC Class A

I/O View



Dimensions



Ordering Information

Model	DC IN	Specifications
ECC-U5000/S001	12V	Intel® Celeron J6412,8*COM, 2*USB3.1+2*USB2.0, 3*LAN, 1*HDMI, 1*mSATA, 2*Mini PCle with PCIeX1 and USB2.0 signals (1*MiniPCle supports 4G, with SIM card slot, Another 1*MiniPCle expansion port is reserved), 8*DI+6*DO, 2*CAN
ECC-U5000/S001-WP	9~36V (OFX-75)	
PA-60DC12		AC/DC power adapter, DC12V@5A ,60W