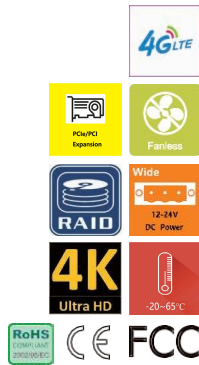


KMDA-3920-ETC-new

Intel® Skylake-S/Kabylake-S CPU, 2*LAN, 4*USB3.0, 1*HDMI, 1*DP, 1*VGA, 10*COM, 16+16位DIO, 1*PCIeX16+1*PCIeX4或 2*32-bit PCI, DC 12~24V wide Power Input. **JHCTECH**

IoT Computer
Connecting the Dots

Fanless Computer--KAMD Series



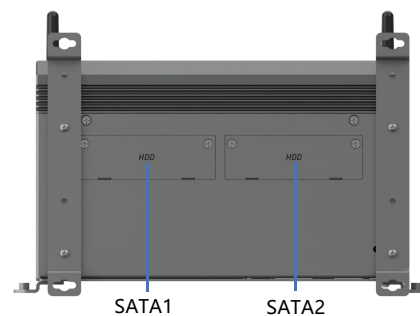
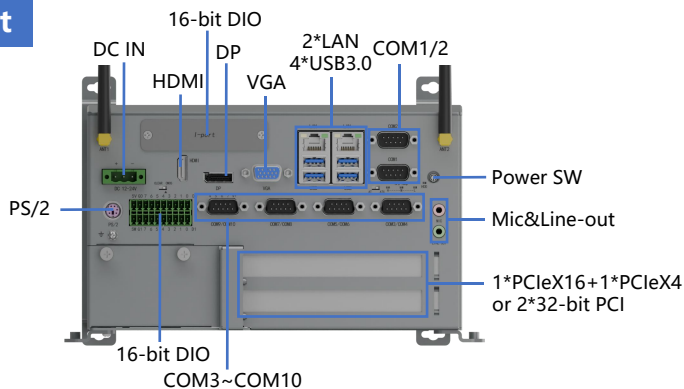
Key Feature

- Aluminum chassis, SGCC frame, fanless design
- Intel® Kabylake-S/Skylake-S CPU
- 2*DDR4 2400/2133MHz SODIMM, Up to 32GB
- DP+HDMI+VGA, Optional 3 independent displays (Q170)
- 2*LAN, 4*USB3.0, 10*COM, 16+16-bit DIO 1*PCIeX16+1*PCIeX4 or 2*PCI expansion slots
- 1*Mini PCIe(PCle+USB), 1*M.2 2242 B-Key
- 1*mSATA, 2*2.5" SATA3, support Raid0,1(Q170)
- Optional 12-channel isolated DI, 12-channel power relay
- Support Intel® iVpro and TPM2.0
- DC 12~24V Wide Power Input

Product Overview

KMDA-3920-ETC-new is a fanless lane industrial computer with Intel® Skylake-S/Kabylake-S series processors, H110 chipset, dual channel DDR4 memory, rich IO functions, and DC 12-24V wide voltage power supply. Easy to remove L-shaped folding cover, convenient installation of functional modules, very suitable for highway ETC toll industry applications.

IO Layout

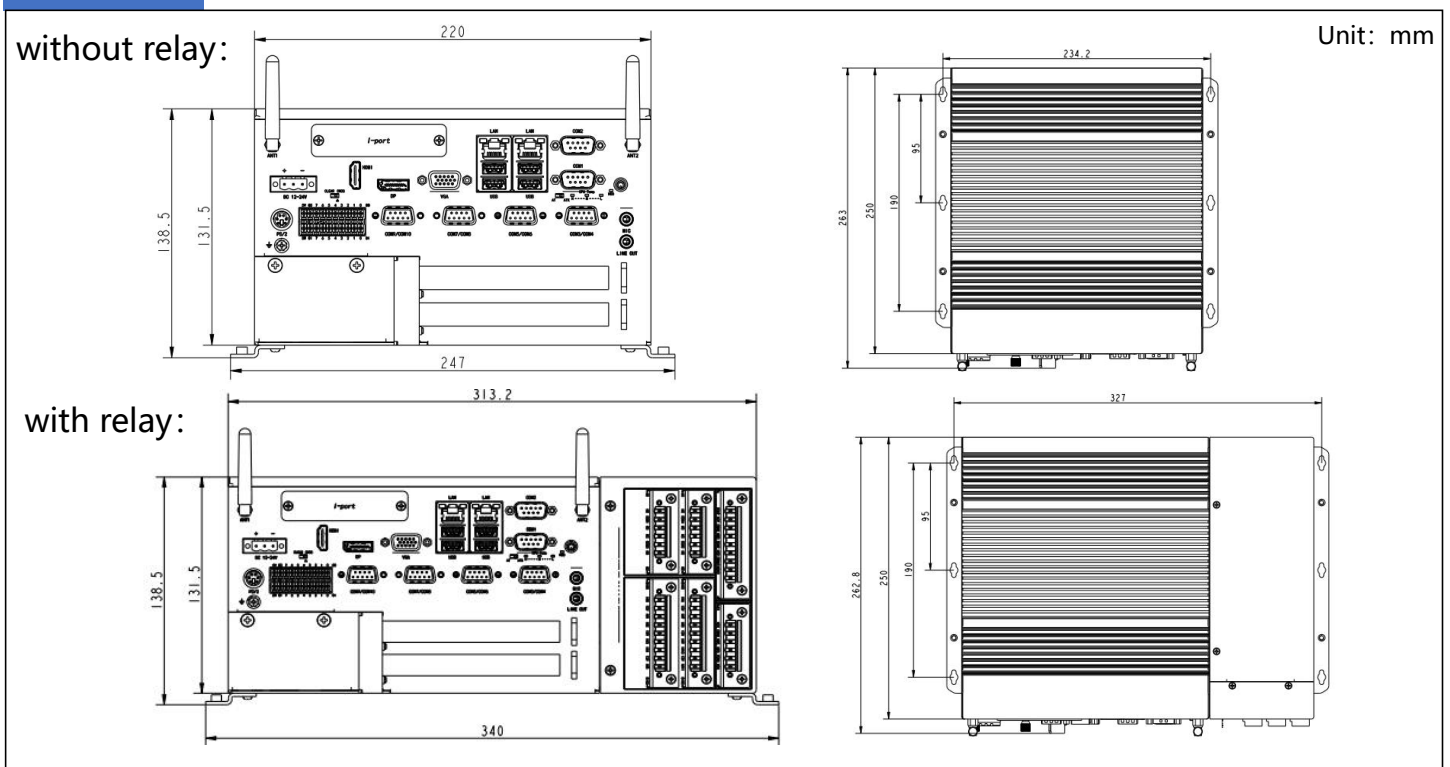


SPEC.

CPU	Gen.6th Intel Skylake-S/gen.7th Intel Kabylake-S Celeron/Pentium/Core I3/I5/I7 CPU LGA 1151 socket
Chipset	Intel® H110, Optional Intel® Q170
Memory	2*260-Pin SODIMM, dual channel DDR4 2133/2400MHz, up to 32GB
Expansion	1*Full size Mini PCIe with PCIe +USB signal and SIM slot, support 4G LTE/Wifi/BT wireless module 1*PCIe X16 or 1*PCI expansion, Support for installation of multiple function modules
Graphics	Gen. 9th Intel® HD Graphics, HEVC/H265 HW HD en/decoder, DP1.2 max. res. 4096*2304@60Hz, HDMI1.4b max. res. 3840*2160@30Hz, VGA max. res. 1920*1200@60Hz, Optional 3 independent displays(In Intel® Q170 Chipset)
Audio	Realtek ALC662VD controller, Audio out and MIC, support 5.1 channels
LAN	1*Intel I211AT+1*Intel I219LM PCIe Gig. Ethernet, 10/100/1000Mbps, support iVpro(Intel® Q170)
Storage	2*2.5" HDD/SSD bay, support RAID0/1(In Intel® Q170 Chipset); 1*mSATA(SATA); 1*M.2 2242 B-key(SATA&USB)
I/O	2*RJ45 Gig-LAN(Front) 4*USB3.0 Type A (Front); 2*USB2.0 Type A(inside) 16+16-bit DIO, 1*PS/2(Front) 2*RS232/422/485 DB9 male(Front), 8*RS232 DB9 male(Front) Audio-out and 1*MIC 3.5mm phone jack(Front) 1*HDMI +1*DP+1*VGA(Front)
LED	1*Power LED, 1*HDD LED, 3*CPU temp. LED (Red is warning , Yellow is high, Green is normal)
Control SW	1*Power button, 1*2pin ter. power-on signal, 1*AT/ATX Select SW, 1*Clear CMOS Select SW
Power supply	DC 12~24V Input, 3-pin ter. connector(Front) Consumption: 19V/3.62A (I7-6700T CPU, 4GB DDR4, 1TB HDD, with function module)
Watchdog timer	Watchdog timeout programmable via software 1 to 255 second
OS	Windows 7, Windows 10, Linux Fedora Ubuntu (Note: Gen.7th Intel® Kabylake-S processors don't support Windows 7)

Mechanical	Aluminum chassis, SGCC frame
Color	Silver grey
Mounting	Desktop mounting, Wall-mounting
Dimension	(W*H*D): 220*250**131.5mm (without relay) ; 313.2*250**131.5mm (with relay))
Net weight	TBD
Operating temperature	-20°C~65°C – Fanless, 35W CPU with wide operating temp. SSD, airflow -10°C~55°C – Fanless, 35W CPU with HDD, airflow
Storage temperature	-40°C~85°C
Storage humidity	10~90%@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)
EMC/ Certification	CE/FCC Class A

Dimension



Ordering Info.

Model No.	CPU	Introduction
KMDA-3920-ETC-new /S001	Intel® Skylake-S/Kabylake-S LGA1151 CPU, H110 Chipset	2*DDR4, 2*LAN, 4*USB3.0, 10*COM, 1*PCIe3.0X16(X16) +1*PCIe3.0X4(X4) or 2*32-bit PCI, 1*Mini PCIe, 1*HDMI, 1*DP, 1*VGA, Audio out, Mic, 16-bitDIO, 1*PS/2, 2*2.5" SATA bay, 1*M.2, 1*mSATA, DC 12~24V, TPM2.0
KMDA-3920-ETC-new /S002	Intel® Skylake-S/Kabylake-S LGA1151 CPU, Q170 Chipset	
JHC-MCUIO relay assembly	12 photoelectric isolation input, 12 relay board (4 high-power relays: 8A 250VAC; 8-channel high power relay: 2A 30VDC or 1A 125VAC)	
PA-120DC19	AC/DC adapter, DC 19V/6.32A, 120W+DC-IN plug + X-standard power cord	
AC-140	8-channel optical isolation input\8-channel high-power relay board	