

Embedded Single Board Computer, ESBC Series

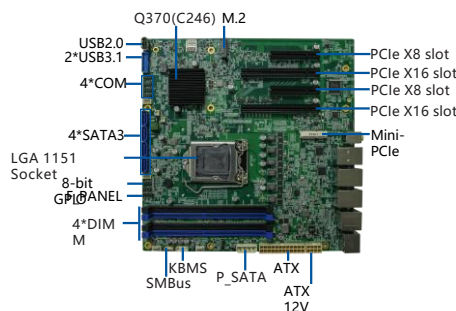
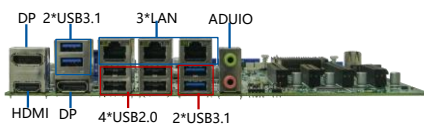
MATX-I961

Intel® Coffee Lake-R LGA1151 CPU, MicroATX, HDMI, 2*DP, 3*LAN, 4*COM, 6*USB3.1, 7*USB2.0, 4*SATA3.0, ATX Power, Workstation grade performance.



Key Features

- Intel® Xeon® E or 9th/8th Gen Core™ i9/i7/i5/i3 processor
- Intel® Q370/C246 Chipset
- 4*DDR4 2666/2400MHz DIMM, Up to 128GB
- 1*PCIe x16 or 2*PCIe X8+2*PCIe x4 slot
- 2*DP, 1*HDMI, support 3 displays
- 3*LAN, 6*USB3.1, 7*USB2.0, 4*COM
- 1*Mini PCIe, support 4G/WiFi/GPS/GSM/BT
- 4*SATA3, 1*M.2 2280 M-Key(PCIe Gen3 x4)
- Support TPM2.0, Support AMT12.0, Intel® iVpro
- ATX Power(12V/5V/3.3V)

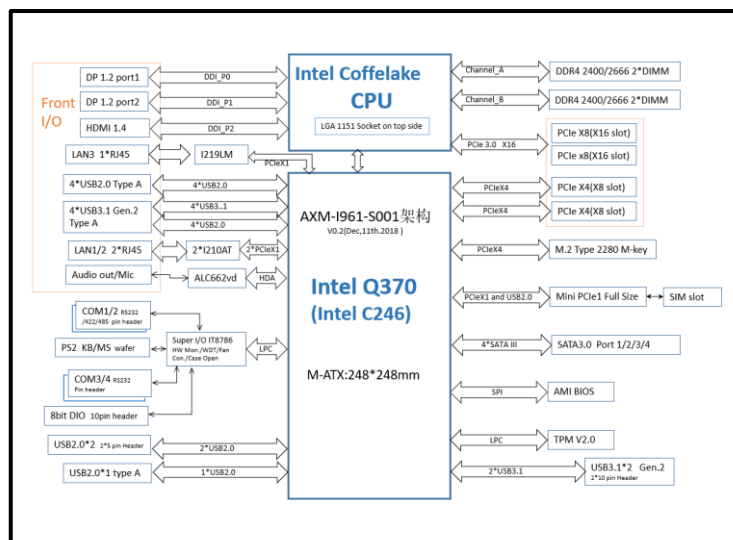


SPEC.

system	CPU	Intel® Xeon® E or 9th/8th-Gen Core™ i9/i7/i5/i3 LGA1151 processor, up to 8C/16T
	Chipset	Intel® Q370 / Intel® C246
	System Memory	4*288-Pin SODIMM, dual channel DDR4 2666/2400MHz, up to 128GB
	Expansion	1*Full size Mini PCIe(PCIe x1+USB) with SIM slot
		2*PCIe X16 slot (PCIe Gen3, support 1 PCIe x16 device, When connecting 2 devices, it automatically switches to 2*PCIe X8)
		2*PCIe X8 slot (PCIe Gen3, 2*PCIe X4 signal)
		1*M.2 2280 M-Key(Gen3, PCIe X4 signal)
	Graphics	Intel® UHD Graphics, Supports Direct X11.1, OpenGL 5.0 and OpenCL 2.1
	Audio	DP max. res. 4096*2304@60Hz, HDMI max. res. 3840*2160@30Hz, support 3 independent display
	LAN	Realtek ALC662VD controller, Support 5.1 channel
	Keyboard & Mouse	2*Intel I210AT PCIe Gig. Ethernet, 10/100/1000Mbps; 1*Intel I219LM PCIe Gig. Ethernet, 10/100/1000Mbps, support AMT12.0, support iVpro technology
	Storage	PS/2 & USB Keyboard and mouse
	DIO	4*SATA3, 6.0Gbps HDD/SSD support Raid 0/1/5/10 1*M.2 2280 M-key, Support NVMe storage
	Internal I/O	8 bit TTL signal, programmable input and output
	Rear I/O	2*USB3.1 Gen2, 1*USB2.0 type A, 2*USB2.0 header, 4*COM header, PS/2 wafer
		1*F. PANEL header (Power SW, Reset, LED, HDD LED), 8-bit DIO, 1*SM bus
	Switch&LED	3*RJ45 Gig-LAN
		4*USB3.1 Gen2 Type A, 4*USB2.0 Type A
		Audio out, Mic
	Security	1*HDMI + 2*DP
		Pin header inside(Power SW, Reset, LED, HDD LED)
	Power Supply	Support Infineon TPM2.0
	Watchdog Timer	24-pin ATX/8-pin ATX 12V; TDP: 374W(I7-8700, 16GB DDR, 2*4TB SATA HDD, GTX-1660 Graphics)
	OS Support	Watchdog timeout programmable via software 1 to 255 second
	OS Support	Windows* 10 Enterprise & IOT Enterprise (64-bit) (CFL-R)
		Windows* Server 2016 (Intel® Xeon® E)
		Ubuntu*, SuSe*, Redhat Enterprise* 1,2 (Kernel 4.14) (CFL-R)
		Wind River* VxWorks* 7 (CFL-R)

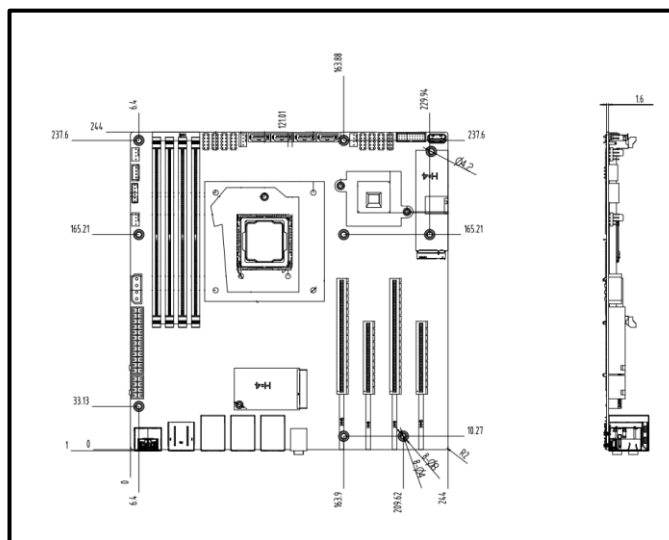
Mechanical & Environmental	Dimension	(W*H): 244*244mm
	Height	Top Side: 30.80mm; PCB: 1.6mm
	Operating Temperature	0°C~60°C
	Storage Temperature	-40°C~85°C
	Storage Humidity	10~90%@40°C, Non-condensing
	Certification/EMC	CE/FCC Class B

Block Diagram



Dimension

Unit:mm



Ordering Info.

Model No.	Introduction
MATX-I961/S001	Embedded Single Board Computer, Intel® Q370+Cooffelake-R LGA1151 CPU, 4*DIMM, 3*LAN, 6*USB3.1, 7*USB2.0, 4*COM, 1*Mini PCIe, 1*M.2 2280 M-Key, 8-bit DIO, 1*PCIe X16(or 2*PCIeX8), 2*PCIe X4, 1*HDMI, 2*DP, Audio out, Mic, PS/2, 4*SATA3, 24-pin ATX/8-pin ATX 12V
MATX-I961/S002	Embedded Single Board Computer, Intel® C246+Cooffelake-R LGA1151 CPU, 4*DIMM, 3*LAN, 6*USB3.1, 7*USB2.0, 4*COM, 1*Mini PCIe, 1*M.2 2280 M-Key, 8-bit DIO, 1*PCIe X16(or 2*PCIeX8), 2*PCIe X4, 1*HDMI, 2*DP, Audio out, Mic, PS/2, 4*SATA3, 24-pin ATX/8-pin ATX 12V

Support CPU List

Series	Intel® Xeon®		Intel® Core™						Intel® Pentium®		Intel® Celeron®	
9 th Gen	E-2278G	8C/16T	I9-9900K	8C/16T	I9-9900	8C/16T	I7-9700K	8C/8T	G5500	2C/4T	G4950	2C/2T
	E-2224G	8C/16T	I7-9700	8C/8T	I7-9700T	8C/8T	I5-9500	6C/6T				
			I5-9500T	6C/6T	I3-9100	4C/4T	I3-9100T	4C/4T				
8 th Gen	E-2176G	6C/12T	I7-8700K	6C/12T	I7-8700	6C/12T	I7-8700T	6C/12T	G5400	2C/4T	G4930	2C/2T
	E-2124G	4C/4T			I5-8500	6C/6T	I5-8500T	6C/6T				
					I3-8100	4C/4T	I3-8100T	4C/4T				

*All specifications and photos are subject to change without notice.
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