

Q470EA-IM-A

ATX, LGA1200 socket for the 10th Gen CPU, Q470E chipset, 4*U-DIMM

2*PCIe x16 slot, 3*PCIe x4 slot, 2*PCI, DP, HDMI, VGA, DP, Dual LAN, M.2 M key

Specifications

Processor System	CPU	Intel® Socket 1200 for 10th Generation Core™ i7/i5/i3/Pentium®/Celeron® Processors supports Intel® 14 nm CPU, support max. 65W CPU
	CHIPSET	Intel® Q470E chipset
Memory	Technology	DDR4 2400/2666/2933 MHz
	Max.	128GB
	Socket	4 x U-DIMM
Display	VGA	1, Supports up to Up to 1920 x 1200 @60Hz (co-day with one DP)
	HDMI	1, Supports up to 4096 X 2160 @ 30Hz
	DP	2, Supports up to 4096 X 2160 @ 60Hz (one of them co-lay with VGA)
	Triple Display	VGA + HDMI + DP / DP + HDMI + DP
Expansion Slot	PCIe	2 x PCIe 3.0/2.0 x16 slot (1 x16 mode / 2 x8mode) *If an expansion slot is installed on the second x16 slot, BIOS will automatically switch the signal from 1 x16 mode to 2 x8 mode).
	PCI	3 x PCIe 3.0/2.0 x4 slot (x2, x1, x1 mode)
	M.2	2 x PCI 1 x M.2 Socket 3 with M key, type 2242/2260/2280 (PCIe x4/ SATA mode)
Ethernet	Speed	10/100/1000Mbps
	Controller	1 x Intel® I219V, 1 x Intel® I210AT
	Connector	2 x RJ-45
Audio	Codec	Realtek ALC897 High Definition Audio
	Connector	Line-Out, Line-In, Mic in
Storage	SATA port	4 x SATA Gen 3.0, up to 6Gb/s
	M.2 Storage	1 x M.2 Socket 3 with M key, type 2242/2260/2280 (PCIe x4/ SATA mode)
Rear I/O	VGA	1
	HDMI	1
	DP	2
	USB 3.2 Gen2	2 (type A)
	USB 3.2 Gen1	2 (type A + C)
	USB 2.0	4
	Ethernet	2
	Serial Port	1 x RS232/422/485
Audio jack	3	
Internal Connector	Serial Port	1 x (RS232/422/485); 4 x RS232
	USB2.0	1 x Header Support Additional 2 x USB2.0 Connectors 2 x Vertical connector
	USB3.1 Gen 1	1 x Header Support Additional 2 x USB3.1 Gen1 Connectors
	CPU Fan Connector	1 (PWM Mode)
	Chassis Fan Header	1 (PWM+DC Mode)
	Chassis Intrusion Header	1
	Front Panel Audio Connector (AAFP)	1
	System Panel Header	1
	PS/2 (KB/MS)	1 (Need additional cable)
	Clear CMOS Jumper	1
	Speaker Connector	1
	LPC Debug Header	1
	I ² C Header	1
	Parallel	1
	GPIO Header	1 (8 Bit)
	AT/ATX Select Header	1
Power Connector	1 x 4-pin ATX Power Connector & 1 x 24-pin ATX Power Connector	

Specifications

Watchdog Timer	H/W	YES
Security	TPM	1 x SPI TPM header
Power	Power Type	AT/ATX mode
Operating System	Microsoft Windows	Windows 10 (64bit) / Win10 IoT Enterprise
	Linux	Ubuntu, RedHat Enterprise, Fedora Workstation, OpenSUSE
Environment	Operating Temperature	0~60° C
	Non-Operating Temperature	-40~85° C
	Relative Humidity	0%~85%
Dimension	Form Factor	ATX, 305 x 244 mm
Certification	EMI & Safety	CE, FCC

Location & Back I/O

