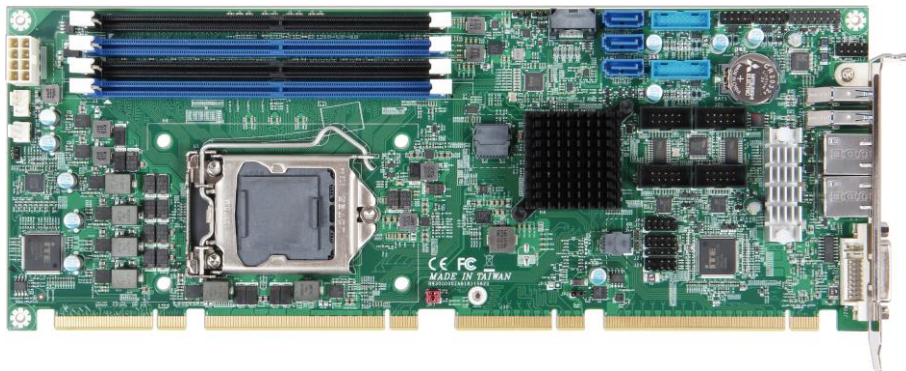


SBC-4230-Q470E

Industrial PICMG1.3 Series



SBC-4230-Q470E

PRODUCT HIGHLIGHTS

- ▶ Intel Xeon® W family/10th Gen Core™ i3/i5/i7/i9™ with Intel® Q470E chipset
- ▶ 4 DDR4 DIMM up to 128GB
- ▶ Supports multiple display by DVI-I (DVI-D+ VGA) and HDMI
- ▶ Dual Intel® WGI219LM + WGI210AT Gigabit Ethernet ports
- ▶ On-board five SATAIII ports
- ▶ Rich I/O connections - Four serials ports, USB 3.2, SATA III ports
- ▶ 14-Year Life Cycle Support Until Q2' 35



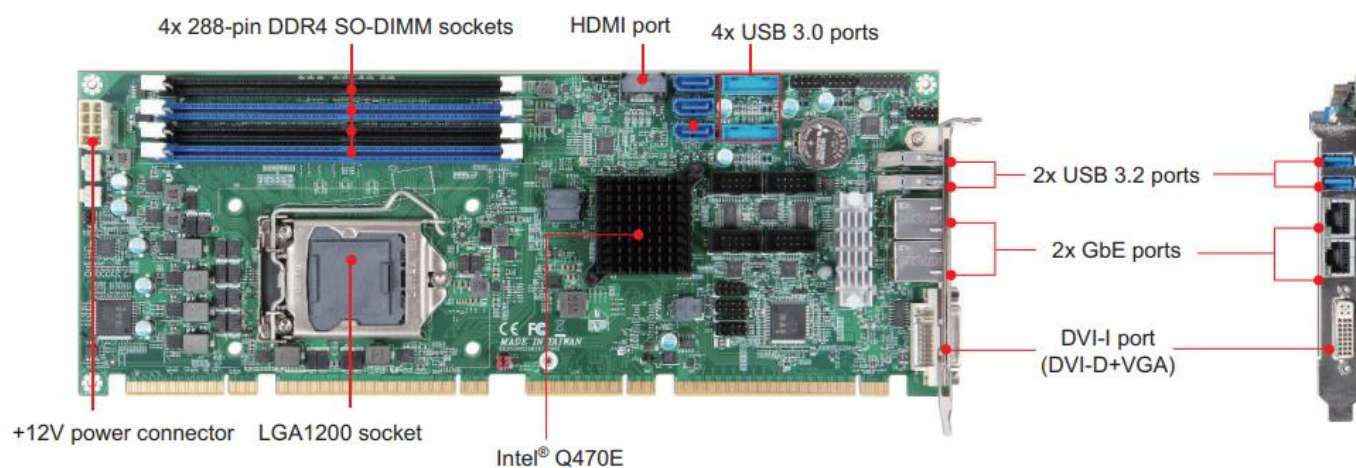
TECHNICAL INFORMATION

SYSTEM	PROCESSOR	Intel® Core™ i3/i5/i7/i9/ Pentium®/ Celeron® processors up to 3.5 GHz(35~95W) in LGA-1200 package DMI x4 Link: 5.0GT/s Support Intel® Turbo Boost, Hyper-Threading, Virtualization, Thermal Monitoring Trusted Execution and SpeedStep Technology (depends on CPU SKU)
	CHIPSET	Intel® Q470E
	BIOS	AMI UEFI BIOS
	MEMORY	Supports up to 128GB DDR4 2666 SDRAM on four 288-pin DIMM sockets Supports Non-ECC
	STORAGE DEVICES	5 x SATAIII drives (Dual ports via Backplane) Supports RAID 0, 1, 5, 10 1 x M.2 Type M 2280 (on bottom side)
	WATCHDOG TIMER	Programmable via S/W from 0.5 sec. to 254.5 sec
	HARDWARE MONITORING	System monitor (Voltage, Fan Speed and Temperature)
I/O INTERFACE	EXPANSION INTERFACE	From CPU: 1x PCIe x16 or 2x PCIe x8 or 1x PCIe x8 + 2x PCIe x4 by jumper setting (Gen3 up to 8.0 GT/s) From PCH: 1x PCIe x4 or 4x PCIe x1 by BIOS support (Gen 3 up to 8.0 GT/s) 4x PCI devices at 32bit 33MHz
	EMBEDDED CONTROLLER	ITE IT5121E-I
	AUDIO	Intel® PCH built-in High Definition Audio up to 192-kHz 32-bit Realtek ALC888S HDA codec, 7.1 channels One on board audio pin header
	ETHERNET	Intel® WGI219LM + WGI210AT Gigabit Ethernet controller Dual 10BASE-T / 100BASE-TX / 1000BASE-T Ethernet PCI Express x1 interface based on Gigabit Ethernet Dual RJ-45 connectors with two LED indicators
	SERIAL PORTS	2 x RS-232 ports 2 x RS-232/422/485 selectable LPC to COM port IC: Fintek F81216DG
	USB	4x USB 2.0 ports (through backplane) 480Mb/s bus capable of high-speed/full-speed/low-speed data ranges 4 x USB 3.2(Gen2) ports on board 10Gbps bus capable of high-speed/ full-speed/low-speed data ranges 2 x USB 3.2(Gen2) ports on bracket 10Gbps bus capable of high-speed/ full-speed/low-speed data ranges
	KEYBOARD & MOUSE	1 x 10 pin box header for external PS/2 KB & MS
	GPIO	On board programmable 8-bit Digital I/Os

► TECHNICAL INFORMATION (CONTINUED)

DISPLAY	GRAPHICS CONTROLLER	Intel® Core™ i3/i5/i7/i9 processors integrated graphics engine Provides improved 3D multimedia capabilities including Microsoft DirectX 12, OpenGL 4.5
	DISPLAY INTERFACE	Supports independent triple display by VGA on bracket: Resolution up to 1920x1200 @ 60Hz DVI-D on bracket: up to 1920x1200 @ 60Hz (VGA + DVI-D on bracket by DVI-I port) HDMI on board: up to 4096x2160 @ 30Hz
MECHANICAL	DIMENSIONS	338.5mm (L) x 126.39mm (W), 13.33" (L) x 4.98" (W) PCB: 10 layers
	POWER SUPPLY	Typical: +12V, +5V Support ATX mode
	ENVIRONMENT	Operating Temperature: 0°C ~ 60°C Storage Temperature: -20°C ~ 80°C Relative Humidity: 5 ~ 90%, non-condensing
	MTBF	Over 100,000 hours at 40°C
	CERTIFICATIONS	CE,FCC Class A
PACKING LIST	STANDARD	SATA III cable PICMG SBC Handling and Installation Notice DVI-D + VGA cable Dual Head COM port cable with bracket Installation CD
	OPTIONAL	PS/2 Keyboard / Mouse Cable with bracket USB port cable with bracket USB 3.0 cable with bracket

► SINGLE BOARD COMPUTER LAYOUT



► Company Address

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