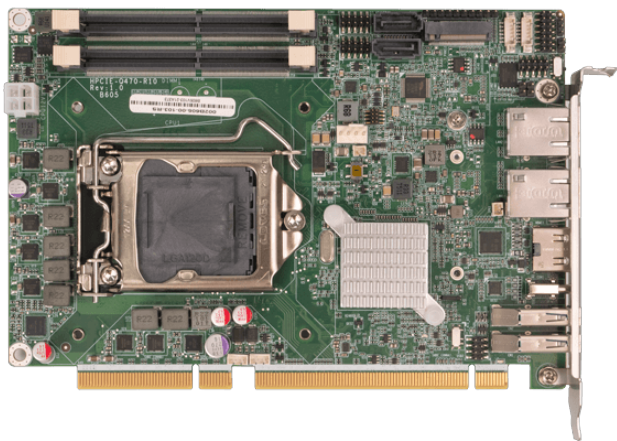


HPCIE-Q470

Half-size PICMG 1.3 CPU Card supports LGA1200 Intel® 10th/11th Gen. Core™ i9/i7/i5/i3, Pentium®, Celeron® CPU with Q470/Q470E, DDR4 SO-DIMM, HDMI, Dual Intel® 2.5GbE, USB 3.2 Gen2, SATA 6Gb/s, M.2, IAUDIO, and RoHs



Features

1. LGA1200 Intel® 10th/11th Generation Core™ i9/i7/i5/i3, Celeron® and Pentium® processor
2. Dual-channel DDR4 2933MHz
3. Support Dual Intel® 2.5GbE
4. Support M.2 A key for WLAN expansion, M key for PCIe NVMe storage

Specifications

Form Factor	
Form Factor	Half Size Single Board Computer
System	
CPU	LGA1200 Intel® 10th/11th Gen. Core™ i9/i7/i5/i3, Pentium® and Celeron® processor (Support up to 65w)
Chipset	Intel® Q470/Q470E
Memory	2 x 260-pin 2933 MHz Dual-channel DDR4 SO-DIMM, support up to 64G
Memory Max.	up to 64GB
Cooling method / System Fan	1 x CPU fan connector (1x4 pin)
Physical Characteristics	
Dimensions (LxWxH) (mm)	185 mm x 126 mm
Net Weight	420g
Storage	
Storage	2 x SATA : 6Gb/s (support RAID 0/1) 1 x M.2 (NGFF) : M Key (2242/2280) with PCIe Gen3 x4, support NVME storage
I/O Interface	
Display Output	1 x HDMI : up to 4096 x 2160@30Hz
Ethernet	2 x LAN : LAN1: Intel® I225V 2.5GbE controller LAN2: Intel® I225V 2.5GbE controller
Audio	1 x HD Audio : 1 x IAUDIO, support AC-KIT-888S Audio Module (2 x 5 pin)
I/O Interface	2 x Internal RS-232/422/485 : 2x5 pin, P=2.00, RS-485 support AFC 2 x External USB 3.2 Gen1x1 : 5Gb/s (Type-A) 2 x Internal USB 2.0 : 2x4 pin, P=2.00 DIO : 12-bit digital I/O (2x7 pin) 1 x External USB 3.2 Gen2x1 : 10Gb/s (Type-C)
Expansion	1 x PCIe x16 : signal from CPU via golden finger (supports x16, or x8 + x8, or x4 + x4 + x8) 1 x PCIe x4 : signal from PCH via golden finger (supports x4, or x1 + x1 + x1 + x1)

	2 x M.2(NGFF) : 1 x M.2 A key (2230) with PCIe Gen3 x2/USB 2.0 1 x M.2 M key (2280/2242) with PCIe Gen3 x4
Power	
Power Supply	5V/12V, ATX/AT power supply
	Support AT/ATX mode
	ErP/EuP Compliant
Environment	
Operating Temperature	0°C – 60°C
Storage Temperature	-30°C – 70°C
Humidity	5% ~ 95%, non-condensing
Certifications	
Safety & EMC	CE/FCC compliant

Ordering Information

HPCIE-Q470-R10	Half-size PICMG 1.3 CPU Card supports LGA1200 Intel® 10th Gen. Core™ i9/i7/i5/i3/Pentium®/Celeron® CPU with Q470E, DDR4 SO-DIMM, HDMI, USB-C, Dual Intel® 2.5GbE, USB 3.2, SATA 6Gb/s, M.2, HD Audio, iAMT and RoHs
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Packing List

1 x HPCIE-Q470 single board computer	2 x SATA cable
1 x I/O shielding	1 x QIG