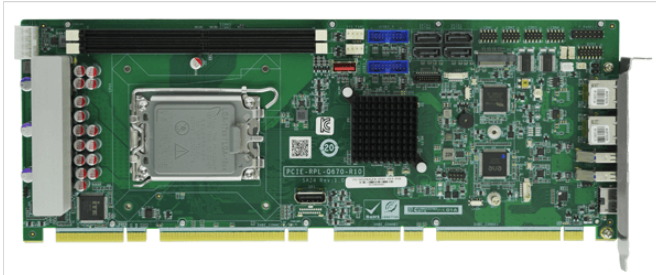


# PCIE-RPL-Q670

Full-size PICMG 1.3 CPU Card supports LGA1700 Intel® 12th/13th/14th Gen. Core™ i9/i7/i5/i3/Pentium®/Celeron® CPU with Q670E, DDR5, HDMI™, DP, Dual Intel® 2.5GbE, USB 3.2, SATA 6Gb/s, M.2, HD Audio and RoHS



## Features

- » Full-size PICMG 1.3 CPU Card supports LGA1700 Intel® 12th/13th/14th Gen. Core™ i9/i7/i5/i3/Pentium®/Celeron® CPU with Q670E
- » Support two 5200 MHz Dual-Channel DDR5 SDRAM Unbuffered DIMMs
- » Triple independent display via dual DP and HDMI™
- » Support Intel® I226-LM and Intel® I226V 2.5GbE controller
- » Support M.2 M key expansion

## Specifications

Form Factor	
Form Factor	Full Size Single Board Computer
System	
CPU	LGA1700 socket supports 12th/13th/14th generation Alder Lake-S Intel® Core™ i9/i7/i5/i3/Pentium®/Celeron® Processor (up to 65W)
Chipset	Intel® Q670E/Q670
Memory	two 288-pin 5200 MHz Dual-Channel DDR5 SDRAM Unbuffered DIMMs
Memory Max.	up to 96GB
Cooling method / System Fan	1 x CPU fan connector (1x4 pin) 1 x System fan connector (1x4 pin)
Physical Characteristics	
Dimensions (LxWxH) (mm)	338 mm x 126 mm
Net Weight	GW:1000g / NW:500g
Storage	
Storage	4 x SATA : 6Gb/s
I/O Interface	
Display Output	1 x HDMI™ : HDMI1.4 4K@30Hz 2 x Display Port - 1 x DP1.4 4K@60Hz, 180° 1 x DP1.4 4K@60Hz, 180°(Option) (The DP interface is not plugged in. If needed, MOQ is 100.)
Ethernet	2 x LAN - LAN1: Intel® I226-LM 2.5GbE controller LAN2: Intel® I226-V 2.5GbE controller
Audio	HD Audio : 1 x iAUDIO, support IEI AC-KIT-888S Audio Module (2 x 5 pin)
I/O Interface	2 x Internal RS-232 : 2x5 pin, P=2.54 2 x Internal RS-232/422/485 : 2x5 pin, P=2.54 (RS485 support AFC) 4 x Internal USB 2.0 : to backplane 1 x DIO : 12-bit digital I/O (2x7 pin) 2 x External USB 3.2 Gen2x1 : 10Gb/s 1 x Internal USB 3.2 Gen2x1 : Type A 180° 4 x Internal USB 3.2 Gen1x2 : 2 X 10 pin P=2.00 (5Gb/s) 1 x I²C : 1x4 pin
Expansion	Description: 1 x PCIe Gen3 x16 & 4 x PCIe Gen3 x1 signal via golden finger

	4 x PCI signal via golden finger
<b>Other Features</b>	
TPM	Support TPM 2.0 (TPM-IN03 module) & Intel PTT
<b>Power</b>	
Power Consumption	3.3V@2.39A, 5V@9.68A, 12V@6.56A, 5VSB@0.35A (Intel® Core™ i9-12900 CPU with 16 GB 5600 MHz DDR5 memory, EuP mode disabled)
Power Supply	ATX/AT power supply
	Support AT/ATX mode
	ErP/EuP Compliant
<b>Environment</b>	
Operating Temperature	-10°C ~ 60°C
Storage Temperature	-30°C ~ 70°C
Humidity	5% ~95%, non-condensing
<b>Card Slot Interface</b>	
M.2	1 x M.2 M Key (2242/2280, PCIe Gen3 x4 ) NVMe support

## Ordering Information

PCIE-RPL-Q670-R10	Full-size PICMG 1.3 CPU Card supports LGA1700 Intel® 12th/13th Gen. Core™ i9/i7/i5/i3/Pentium®/Celeron® CPU with Q670E, DDR5, HDMI,iDPM display module,Dual Intel® 2.5GbE, USB 3.2, SATA 6Gb/s, M.2, HD Audio and RoHS
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## Packing List

1 x PCIE-RPL-Q670 single board computer	1 x mini jumper pack
1 x SATA cable	1 x QIG