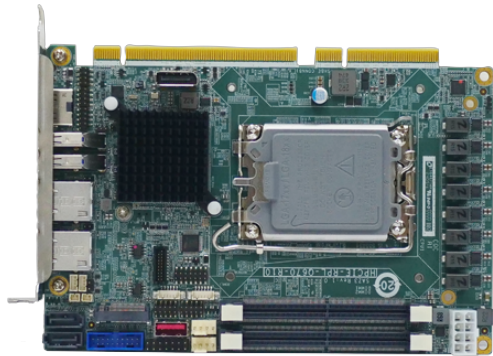


# HPCIE-RPL-Q670

Half-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

- » Half-size PICMG 1.3 CPU Card supports LGA1700 Intel® 12th/13th/14th Gen. Core™ i9/i7/i5/i3/Pentium®/Celeron® CPU with Q670E
- » Support 262-pin 5200 MHz Dual-Channel DDR5 So-DIMMs
- » Double independent display via DP and HDMI™
- » Support Intel® I226-LM and Intel® I226V 2.5GbE controller
- » Support M.2 M key expansion

## Specifications

Form Factor	
Form Factor	Half 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 262-pin 5200 MHz Dual-Channel DDR5 So-DIMMs
Memory Max.	64GB
Cooling method / System Fan	1 x CPU fan connector (1x4 pin) 1 x System fan connector (1x4 pin)
Physical Characteristics	
Dimensions (LxWxH) (mm)	168 mm x 126 mm
Net Weight	GW:1000g / NW:420g
Storage	
Storage	1 x M.2(NGFF) : M Key (2242, PCIe Gen3 x4) NVMe support 2 x SATA : 6Gb/s (RAID 0/1 supported)
I/O Interface	
Display Output	1 x Display Port : 4K@60Hz, 180° 1 x HDMI™ : 4K@30Hz
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	1 x DIO : 12-bit digital I/O (2x7 pin) 2 x External USB 3.2 Gen2x1 : 10Gb/s (Type-A) 1 x I²C : 1x4 pin 2 x Internal RS-232/422/485 : 2x5 pin, P=2.00 (RS485 support AFC) 4 x Internal USB 2.0 : 2x4 pin, P=2.54 2 x Internal USB 3.2 Gen1x2 : 2 X 10 pin P=2.00 (5Gb/s) 1 x Internal USB 3.2 Gen2x1 : Type A 180°
Expansion	Description: 1 x PCIe Gen3 x16 & 4 x PCIe Gen3 x1 signal via golden finger, 4 x PCI signal via golden finger

Other Features	
TPM	Support TPM 2.0 (TPM-IN03 module) & Intel PTT
Power	
Power Consumption	3.3V@0.05A, 5V@0.93A, 12V@11.33A, 5VSB@0.37A (Intel i9-14900 2GHz CPU with Apacer DDR5 5600MT/s SODIMM 32GB memory, EuP mode enabled)
Power Supply	ATX/AT power supply Support AT/ATX mode ErP/EuP Compliant
Environment	
Operating Temperature	-10~60°C
Storage Temperature	-30°C ~ 70°C
Humidity	5% ~95%, non-condensing
Card Slot Interface	
M.2	1 x M.2 M Key (2242, PCIe Gen3 x4 ) NVMe support

## Ordering Information

HPCIE-RPL-Q670-R10	Half-size PICMG 1.3 CPU Card supports LGA1700 Intel® 12th/13th 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, iAUDIO and RoHS
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## Packing List

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