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## PCIe-AM5

Full-size PICMG 1.3 CPU Card supports AMD Ryzen™ 7000/8000 Series Desktop Processors, DDR5, dual Display, Dual Intel® 2.5GbE, USB3.2, M.2, RoHS

### Features



- » Full-size PICMG 1.3 CPU Card supports AMD 7000 & 8000G PHX1 series processor
- » Support two 288-pin 5200 MHz Dual-Channel DDR5 SDRAM Unbuffered DIMMs supported up to 64GB
- » Support DisplayPort 1.4, HDMI™
- » Support Dual Intel® I226V 2.5GbE controller
- » Flexible expansion with full-size PICMG1.3 CPU board

### Specifications

| Form Factor                 |                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Form Factor                 | Full Size Single Board Computer                                                                                                                                                                                                                                                                                                                                                   |
| System                      |                                                                                                                                                                                                                                                                                                                                                                                   |
| CPU                         | AMD Socket AM5 for AMD Ryzen™ 7000 & 8000G PHX1 Series Desktop Processors                                                                                                                                                                                                                                                                                                         |
| Chipset                     | AMD A620                                                                                                                                                                                                                                                                                                                                                                          |
| Memory                      | two 288-pin 5200 MHz Dual-Channel DDR5 SDRAM Unbuffered DIMMs, supported up to 64GB                                                                                                                                                                                                                                                                                               |
| Cooling method / System Fan | 1 x CPU fan connector (1x4 pin)<br>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 (RAID 0/1/10 supported)                                                                                                                                                                                                                                                                                                                                          |
| I/O Interface               |                                                                                                                                                                                                                                                                                                                                                                                   |
| Display Output              | 1 x Display Port : internal 180° DP 1.4, 4K @60Hz<br>1 x HDMI™ : 4K @30Hz                                                                                                                                                                                                                                                                                                         |
| Ethernet                    | 2 x LAN -<br>LAN1: Intel® I226V 2.5GbE controller<br>LAN2: Intel® I226V 2.5GbE controller                                                                                                                                                                                                                                                                                         |
| I/O Interface               | 1 x DIO : 12-bit digital I/O (2x7 pin)<br>3 x External USB 3.2 Gen2x1 -<br>2 x USB 3.2 Gen2 (Type-A)<br>1 x Type C (10Gb/s)<br>2 x Internal RS-232/422/485 : 2x5 pin, P=2.54<br>8 x Internal USB 2.0 -<br>4 x USB 2.0 (2x4 pin, P=2.54)<br>4 x USB 2.0 to the backplane<br>2 x Internal USB 3.2 Gen1x2 : 5Gb/s, 2x10 pin<br>1 x Internal USB 3.2 Gen2x1 : 10Gb/s, internal Type A |
| Expansion                   | 1 x M.2(NGFF) : M.2 M Key (2242/2280, PCIe Gen4 x4)<br>NVMe support<br>4 x PCIe x1 : signal via golden finger (support 1 x4, or 4 x1)<br>1 x PCIe x16 : signal via golden finger (Support x16, or x8 + x8, or x4 + x4 + x4 + x4)                                                                                                                                                  |

|                       |                         |
|-----------------------|-------------------------|
| Power                 |                         |
| Power Supply          | Support AT/ATX mode     |
| Environment           |                         |
| Operating Temperature | -10°C ~ 60°C            |
| Storage Temperature   | -30°C ~ 70°C            |
| Humidity              | 5% ~95%, non-condensing |

## Ordering Information

|              |                                                                                                                                                |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| PCIE-AM5-R10 | Full-size PICMG 1.3 CPU Card supports AMD Ryzen™ 7000 Series Desktop Processors,DDR5 SO-DIMM, Triple Display,Dual Intel 2.5GbE,USB3.2,M.2,RoHS |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------|

## Packing List

|                                    |                   |
|------------------------------------|-------------------|
| 1 x PCIE-AM5 single board computer | 1 x I/O Shielding |
| 1 x SATA cable                     | 1 x QIG           |