



PSYS-508-Q670

Barebone system with 14th/13th/12th
Generation Intel® Core™ i3/i5/i7/i9
based ATX board



PSYS 508 Q670 builds on Intel® Q670E chipset and takes advantages of 14th/13th/12th Generation Intel® Core™ i3/i5/i7/i9 processors technologies that can support 4 x DDR5 memory and 7 x SATA Ports for storage. With the advantage of 600w 80 plus gold ATX PSU, will be a flexible platform for factory automation, AOI, surveillance application.

FEATURES

- Support 14th/13th/12th Generation Intel® Core™ i9/i7/i5/i3 processors
- Four U-DIMM support DDR5 DRAM up to 128GB
- Support two DP, one HDMI, one VGA display
- Support One M.2 E Key, One M.2 M Key
- Support 1 x COM ports (1x RS-232/422/485)

ORDERING GUIDE

AS1-3382

(R).PSYS-508-Q670. 4U Rackmount
Barebone System with Intel Core-i
12th/13th/14th MB & 600w PSU

System

CPU	Supporting Intel® 14th /13th /12th -Gen Core™ i9/i7/i5/i3/Pentium/Celeron CPU (LGA1700 socket, Max 65W TDP)
BIOS	AMI uEFI BIOS (SPI ROM)
Memory	4 x U-DIMMs, max. 128GB, DDR5
Storage	7 x SATA 6.0 Gb/s ports, Supports RAID 0/1/5/10
Watchdog Timer	Yes
TPM	1 x SPI TPM header
Expansion	1x M.2 E key, type 2230 (CNVi mode) for WiFi/BT devices (Antenna Kit supported) 1x M.2 M key, type 2242/2260/2280 (PClex4/SATA mode) supporting NVMe 1x PCIe 5.0 x16 slot (x16 mode / x8 mode) 1x PCIe 4.0 x4 slot (x4 mode, open slot) 1x PCIe 5.0 x16 slot (x8 mode) 1x PCIe 3.0 x4 slot (x4 mode, open slot) 1x PCIe 4.0 x4 slot (x4 mode, open slot) 2x PCI slots
Internal I/O	5x COM header support 5 COM ports (1 x RS-232/422/485, 4 x RS232) 2x USB 3.2 Gen1 header supports additional 4x USB 3.2 Gen 1 ports 1x USB 2.0 header support 2x USB 2.0 ports 1x 8 bit GPIO header (Connector Kit supported)

External I/O

Serial Port	- 1 x COM ports (1 x RS-232/422/485)
Display	- 2x DP, support DP++1.4, up to 3840 x 2160 @ 60Hz - 1x HDMI, support 2.1, up to 4096 x 2160 @ 60Hz - 1 VGA
USB	- 6 x USB 3.2 Gen 2 (5 x Type A+ 1 x Type C) - 2 x USB 2.0 (Type A)
Audio	3 (Line in, Line out, Mic In)
Ethernet	- 1 x GbE , 2 x 2.5 GbE

Power Supply Unit

Power Input	ATX 600w 80 plus gold
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Environmental

Operation Temperature	0°C ~ 40°C
Storage Temperature	-20°C~60°C
Relative Humidity	40°C, 85%RH non-condensing
Operation Vibration	0.75 Grms/5-500Hz, IEC 60068-2-6
Operation Shock	10G, 11 msec, IEC 60068-2-27
OS	Win11 IOT LTSC

Mechanical

Dimension	430 (W) x 450 (D) x 177 (H) mm
Weight	18 Kg
Mounting	Rackmount

