

Item no.: ARES-WHI0

ARES-WHI0 - Intel® Whitely Platform Server Board

from **1.007,54 EUR**

Item no.: ARES-WHI0
shipping weight: 0.50 kg
Manufacturer: AAEON

Product Description

Powered by 3rd Generation Intel® Xeon® Scalable Processors (formerly Ice Lake-SP), the ARES-WHI0 server board leverages processing performance and expandability to deliver a platform that is powerful and flexible with the scalability to match any application.

The ARES-WHI0 is designed to combine industrial reliability and performance with AI capability on a standardized platform. Built on the ATX standard form factor, the ARES-WHI0 is powered by 3rd Generation Intel Xeon processors, delivering the next generation of high-end computing performance and support for vital data integrity and security technologies.

The ARES-WHI0 server board comes equipped with five PCIe Gen 4 and two PCIe Gen 3 slots, allowing the board to power up to four GPUs. This support enables it to power performance demanding applications such as edge AI servers, AI-based visual inspection, frame grabbers, or for functional add-ons to meet the needs of individual applications.

Built with AAEON's focus on industrial design, the ARES-WHI0 server board is built with I/O features including DIO, six USB 3.0 ports, and Case Open headers. Additionally, AAEON offers industry-leading service and support to deliver a platform designed for a long service life.

Offering greater high-speed storage options, the ARES-WHI0 is equipped with eight SATA III (6.0 Gbps) ports, RAID support, as well as NVMe. The board also features six DDR4 2666 MHz slots, allowing for greater flexibility and storage speeds in data server applications.

- ATX Server Board
- Single Intel 3rd Gen. Xeon® scalable Ice Lake-SP processor
- Intel® Communications Chipset C621A
- 6x DDR4 2666 MHz R-DIMM slots
- 8x SATA III, supporting RAID 0, 1, 5, 10
- 4x M.2 2280 M-Key with PCIe signal
- Dual LAN with Intel® i210 Gigabit Ethernet Controller
- Audio In/Out and VGA
- TPM, DIO pin header reserved, and Case Open Support
- 6x USB 3.0
- 3x PCIe Gen 4 [x16], 1x PCIe Gen 4 [x8], 1x PCIe Gen 4 [x4], 2x PCIe Gen 3 [x4]
- 5x 4-pin fan headers (up to 5 fans)
- Operating temperature range 32°F ~ 140°F (0°C ~ 60°C)

System

- Form factor: ATX Sever Board Whitley Platform
- Processor: Single Intel® Xeon® Processor Ice Lake-SP processor, supports up to 270 W
- System memory: 6x DDR4 2666 MHz R-DIMM Slot, supports up to 192 GB (32 GB per DIMM)
- Chipset: Intel®C621A
- Ethernet: 2x Intel® i210 Gigabit Ethernet
- COM: 1x RS-232
- BIOS: AMI BIOS
- Serial ATA: 8x SATA III port
- Audio: 1x
- Expansion interface: PCIe 1: 1x PCIe x16 (Gen4 x16) slot; PCIe 2: 1x PCIe x8 (Gen3 x4) slot; PCIe 3: 1x PCIe x16 (Gen4 x16) slot; PCIe 4: 1x PCIe x8 (Gen4 x4) slot; PCIe 5: 1x PCIe x16 (Gen4 x16) slot; PCIe 6: 1x PCIe x8 (Gen3 x4) slot; PCIe 7: 1x PCIe x8 (Gen4 x8) slot
- Watchdog timer: 1~255 steps by software programming
- RTC: Internal RTC
- System fan: 5x 4-pin fan headers (up to 5 fans)
- Front I/O panel: N/A
- Rear I/O panel: 6x USB 3.0, 2x 1 Gb RJ45 LAN, 1x AUDIO in and out, 1x VGA
- Color: N/A
- Power supply: ATX
- Dimension: 12.0" x 9.6" (305 x 244 mm)
- Power consumption: 269 W (based on Intel® Xeon® Platinum 8352S)
- MTBF (hours): 292,321

Display

- Display chipset: SM750
- Graphics engine: N/A
- Resolution: 1920 x 1080 (WIN Server 2019); 800 x 600 (CentOS 7.3)
- Connector: VGA

I/O

- Serial port: COM x 1 Pin
- KB mouse: N/A
- USB: 6x USB 3.0

Environment

- Operating temperature: 32°F ~ 140°F (0°C ~ 60°C)
- Storage temperature: -4°F ~ 140°F (-20°C ~ 60°C)
- Operating humidity: 10%~80% relative humidity, non-condensing
- Storage humidity: 10%~80% @40°C; non-condensing
- Vibration: 0.5 g rms/5 ~ 500 Hz/operation (2.5" Hard Disk Drive); 1.5 g rms/5 ~ 500 Hz/non operation
- Shock: 10 G peak acceleration (11 m sec. duration), operation; 20 G peak acceleration (11 m sec. duration), non operation

Specifications

**Scan this QR code to
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All details, up-to-date
prices and availability

