

Apogean Intel Xeon 4th & 5th Gen Intel® Xeon® W Series Processors Single Socket High End Multi GPU Workstation

IS4T-W3-A



Key Features

- Supports 4th Gen Intel® Xeon® W-3400 and W-2400 Processors
- Supports DDR5 ECC, buffered memory up to 6800
- 4 Blazing M.2 (PCIe Gen5 x4), 1 U.2 mini SAS Connector (PCIe Gen4 x4), 2×3.5 + 2×2.5 SATA Drive Slots.
- 4 PCIe 5.0 x16, 1 PCIe 4.0 x16
- 2 Thunderbolt 4 Type-C, 2 USB 3.2 Gen2 (Rear), 4 USB 3.2 Gen1 (4 Rear)
- 7.1 CH HD Audio (Realtek ALC897 Audio Codec)
- Dual Marvell AQUANTIA® 10 GbE LAN
- Intel® i225LM 2.5 GbE LAN 802.11ax
- WiFi 6E + Bluetooth 5.3

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Specifications:

• CPU

Supports 4th Gen Intel® Xeon® W-3400 and W-2400 Processors (LGA4677)
Supports Intel® Boot Guard
Supports Intel® Trusted Execution Technology (Intel® TXT)
Supports Intel® Turbo Boost Technology
Supports Intel® Virtualization Technology (Intel® VT)
Supports Intel® Hyper-Threading Technology (Intel® HT Technology)
Supports Intel® Data Streaming Accelerator (Intel® DSA)
Supports CXL (Compute Express Link) 1.1
Supports Hyper BCLK Engine

• Chipset

Intel® W790
Supports Intel® vPro Technology
Supports Intel® Active Management Technology

• Memory

Quad Channel DDR5 Memory Technology
8 x DDR5 DIMM Slots
8 x 128 GB DDR5 ECC RDIMM
Max. capacity of system memory: 2TB

• Form Factor

EATX Tower

• BIOS

256Mb AMI UEFI Legal BIOS with GUI support

• Graphics

N/A

• Audio

7.1 CH HD Audio (Realtek ALC897 Audio Codec)
Nahimic Audio

• LAN

2 x 10 Gigabit LAN 100/1000/2500/5000/10000 Mb/s (Marvell (Aquantia) AQC113CS)
Support Wake-On-LAN
Support PXE
1 x 2.5 Gigabit LAN 10/100/1000/2500 Mb/s (Intel® I225LM)
Support Wake-On-LAN
Support PXE
Supports Intel® vPro Technology

• Power Supply

750, 850, 950, 1000, 1200, 1600W (Gold & Platinum)

• SuppOS

Microsoft Windows® 10 64-bit / 11 64-bit
Linux*

• Rear Panel I/O

2 x Antenna Ports
1 x Optical SPDIF Out Port
2 x Thunderbolt 4 Type-C Ports*
2 x USB 3.2 Gen2 Type-A Ports (10 Gb/s)
4 x USB 3.2 Gen1 Ports
3 x RJ-45 LAN Ports
1 x BIOS Flashback Button
1 x Line Out Jack (Gold Audio Jack)
1 x Microphone Input Jack (Gold Audio Jack)

• Wireless LAN

802.11ax Wi-Fi 6E Module
Supports IEEE 802.11a/b/g/n/ac/ax
Supports Dual-Band 2x2 with extended 6GHz band support*
1 antenna to support 2 (Transmit) x 2 (Receive) diversity technology
Supports Bluetooth 5.3 + High speed class II
Supports MU-MIMO

• Slots

CPU:
4 x PCIe 5.0 x16 Slots (PCIe1/PCIe3 at x16; PCIe2/PCIe5 at x8)*

• Storage

CPU:
1 x Blazing M.2 Socket (M2_1, Key M), supports type 2230/2242/2260/2280 PCIe Gen5x4 (128 Gb/s) mode*
2 x Blazing M.2 Sockets (M2_2 and M2_3, Key M), support type 2260/2280 PCIe Gen5x4 (128 Gb/s) mode*
1 x Blazing M.2 Socket (M2_4, Key M), supports type 2260/2280 PCIe Gen5x4 (128 Gb/s) mode*
Chipset:
(4) 3.5/2.5 x SATA3 6.0 Gb/s drive slots
1 x U.2 Connector, supports PCIe Gen4x4 (64 Gb/s) mode

• RAID

Supports RAID 0, RAID 1, RAID 5 and RAID 10 for SATA storage devices
Supports RAID 0, RAID 1, RAID 5 and RAID 10 for M.2 NVMe storage devices

• USB

USB WiFi & Bluetooth Adapter
2 x Thunderbolt 4 Type-C (Rear)
2 x USB 3.2 Gen2 Type-A (Rear)
4 x USB 3.2 Gen1 (4 Rear)

• Connector

1 x Virtual RAID On CPU Header
1 x SPI TPM Header
1 x Chassis Intrusion and Speaker Header
1 x 24 pin ATX Power Connector (Hi-Density Power Connector)
2 x 8 pin 12V Power Connectors (Hi-Density Power Connector) (for Motherboard)
1 x Front Panel Audio Connector
2 x USB 2.0 Headers (Support 3 USB 2.0 ports)
2 x USB 3.2 Gen1 Headers (Support 4 USB 3.2 Gen1 ports)
1 x Front Panel Type C USB 3.2 Gen2x2 Header (20 Gb/s)
1 x Clear CMOS Button
1 x Dr. Debug with LED
1 x Power Button with LED
1 x Reset Button with LED

• UEFI

Built in UEFI
Auto Driver Installer
Instant Flash
Easy RAID Installer