

Apogean Compact AI Workstation

IS4T-U9-B8



Key Specifications & Features

- Intel Core Ultra 7 & Ultra 9 | Upto 24 Cores & 5.70 GHz | Integrated NPU for AI Acceleration.
- RTX 2000 Ada to RTX Pro 4000 | Upto 24GB VRAM
- 32GB to 128GB DDR5 RAM
- 10+1+1+1+1 Power Phase, Dr.MOS for VCore+GT+SA
- 2.5G LAN, 802.11ax Wi-Fi 6E Module
- Pre-Validated — Stable Diffusion, NVIDIA AI Workbench, OpenVINO, LM-Studio.

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Specifications:

• Form Factor

- Micro

• CPU

- Supports Intel® Core™ Ultra Processors (Series 2) (LGA1851)
- Supports Intel® Hybrid Technology
- Supports Intel® Turbo Boost Max 3.0 Technology
- Supports Intel® Thermal Velocity Boost (TVB)
- Supports Intel® Adaptive Boost Technology (ABT)
- Integrated NPU for dedicated AI acceleration

• Chipset

- Intel® B860

• Memory

- Dual Channel DDR5 Memory Technology
- 4 x DDR5 DIMM Slots
- Supports DDR5 non-ECC, un-buffered memory up to 8666+(OC)*
- Supports Clocked Unbuffered DIMM (CUDIMM)
- Max. capacity of system memory: 256GB
- Supports Intel® Extreme Memory Profile (XMP) 3.0x
- *1DPC 1R Up to 8666+ MHz (OC), 5600 MHz Natively. 1DPC 2R Up to 6800+ MHz (OC), 5600 MHz Natively. 2DPC 1R Up to 6533+ MHz (OC), 4800 MHz Natively. 2DPC 2R Up to 5600+ MHz (OC), 4400 MHz Natively.**

• Graphics

- Intel® Xe LPG Graphics Architecture
- 1 x HDMI 2.1 TMDS/FRL 8G Compatible, supports HDR, HDCP 2.3 and max. resolution up to 4K 120Hz
- 1 x DisplayPort 1.4 with DSC (compressed), supports HDCP 2.3 and max. resolution up to 8K 60Hz / 5K 120Hz
- * Intel® UHD Graphics Built-in Visuals and the VGA outputs can be supported only with processors which are GPU integrated.**

• LAN

- 2.5 Gigabit LAN 10/100/1000/2500 Mb/s
- Dragon RTL8125BG
- Supports Dragon 2.5G LAN Software
- Smart Auto Adjust Bandwidth Control
- Visual User Friendly UI
- Visual Network Usage Statistics
- Optimized Default Setting for Game, Browser, and Streaming Modes
- User Customized Priority Control

• Wireless LAN

- 802.11ax Wi-Fi 6E Module
- Supports IEEE 802.11a/b/g/n/ac/ax/axe
- Supports Dual-Band 2x2 with extended 6GHz band* support
- 2 antennas to support 2 (Transmit) x 2 (Receive) diversity technology
- Supports Bluetooth 5.3
- Supports MU-MIMO
- *The 6GHz band of Wi-Fi 6E module is supported by Microsoft Windows® 11 only. The availability of the 6GHz band will depend on the different regulation status of each country and region. It will be activated (for supported countries) through Windows® Update and software updates once available. A 6GHz compatible router is required for 6E functionality.**

• Audio

- 7.1 CH HD Audio (Realtek ALC897 Audio Codec)

• BIOS

- 256Mb AMI UEFI Legal BIOS with GUI support

• Slots

CPU:

- 1 x PCIe 5.0 x16 Slot (PCIe1), supports x16 mode*

Chipset:

- 1 x PCIe 4.0 x4 Slot (PCIe2), supports x4 mode*
- 1 x M.2 Socket (Key E), supports type 2230 WiFi/BT PCIe WiFi module and Intel® CNVio/CNVio2 (Integrated WiFi/BT)

*** Supports NVMe SSD as boot disks**

• Storage

- (1) 3.5" + (2) 2.5" SATA 6G drive bays

CPU:

- 1 x Blazing M.2 Socket (M2_1, Key M), supports type 2280 PCIe Gen5x4 (128 Gb/s) mode*

Chipset:

- 1 x Hyper M.2 Socket (M2_2, Key M), supports type 2230/2242/2260/2280 PCIe Gen4x4 (64 Gb/s) mode*
- 1 x Hyper M.2 Socket (M2_3, Key M), supports type 2280 PCIe Gen4x4 (64 Gb/s) mode*
- 4 x SATA3 6.0 Gb/s Connectors

*** Supports Intel® Volume Management Device (VMD)**

• RAID

- Supports RAID 0, RAID 1, RAID 5 and RAID 10 for SATA storage devices

• USB

CPU:

- 1 x USB 3.2 Gen2x2 Type-C (Rear)

Chipset:

- 1 x USB 3.2 Gen1 Type-C (Front)
- 5 x USB 3.2 Gen1 Type-A (3 Rear, 2 Front)
- 6 x USB 2.0 (2 Rear, 4 Front)

*** All USB ports support ESD Protection**

• Connectors

- 1 x SPI TPM Header
- 1 x Power LED and Speaker Header
- 1 x RGB LED Header*
- 3 x Addressable LED Headers**
- 2 x CPU Fan Connector (4-pin) (Smart Fan Speed Control)***
- 3 x Chassis Fan Connectors (4-pin) (Smart Fan Speed Control)***
- 1 x AIO Pump Fan Connector (4-pin) (Smart Fan Speed Control)***
- 1 x 24 pin ATX Power Connector
- 1 x 8 pin 12V Power Connector (Hi-Density Power Connector)
- 1 x 4 pin 12V Power Connector (Hi-Density Power Connector)
- 1 x Front Panel Audio Connector
- 2 x USB 2.0 Headers (Support 4 USB 2.0 ports)
- 1 x USB 3.2 Gen1 Header (Supports 2 USB 3.2 Gen1 port)
- 1 x Front Panel Type C USB 3.2 Gen1 Header

*** Supports in total up to 12V/3A, 36W LED Strip**

**** Support in total up to 5V/3A, 15W LED Strip**

***** CPU_FAN1 supports the fan power up to 1A (12W).**

CPU_FAN2, CHA_FAN1-3 and AIO_PUMP support the fan power up to 3A (36W).

CPU_FAN2, CHA_FAN1-3 and AIO_PUMP can auto detect if 3-pin or 4-pin fan is in use.

Specifications:

• CPU

Software

- Motherboard Utility (A-Tuning)
- 2.5G LAN Software
- Polychrome SYNC*

UEFI

- EZ Mode
- Full HD UEFI
- My Favorites in UEFI
- Auto Driver Installer
- Instant Flash

• Accessories

- 1 x I/O Shield
- 2 x SATA Data Cables
- 2 x WiFi 2.4/5/6 GHz Antennas

• Rear I/O

- 2 x Antenna Ports
- 1 x HDMI Port
- 1 x DisplayPort 1.4
- 1 x USB 3.2 Gen2x2 Type-C Port (20 Gb/s)
- 3 x USB 3.2 Gen1 Ports
- 2 x USB 2.0 Ports
- 1 x RJ-45 LAN Port
- 1 x BIOS Flashback Button
- HD Audio Jacks: Line in / Front Speaker / Microphone

• OS

- Microsoft Windows® 11 64-bit