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Apogean Single Socket Intel 12th Gen & 13th Gen Core Processors Workstation



IS4T-C9-A

Intel® W680 (LGA 1700) Tower Workstation, PCIe® 5.0, DDR5, dual Intel® 2.5 Gb Ethernet, three PCIe 4.0 M.2 slots, USB 3.2 Gen 2x2 front panel connector, SlimSAS, SATA 6 Gbps, HDMI®, DisplayPort and VGA.

Intel® LGA 1700 socket:

Ready for 13th Gen Intel® Core™ processors & 12th Gen Intel® Core™, Pentium® Gold and Celeron® Processors

Enhanced power solution:

DrMOS, ProCool connector, alloy chokes and durable capacitors for stable power delivery

Next-gen connectivity:

Dual PCIe 5.0 SafeSlots, dual PCIe 3.0 slots, 3 x M.2 PCIe 4.0, SlimSAS, dual Intel® 2.5Gb Ethernet, front panel USB 3.2 Gen2x2 Type-C®, Thunderbolt™ 4 header support, TPM header, LPT header

Comprehensive cooling:

Large VRM heatsink, M.2 heatsinks, hybrid fan headers and Fan Xpert 4

Advanced security management:

USB port management, software blacklisting and Regedit on/off controls.



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Specifications

Intel® Socket LGA1700 for 13th Gen Intel® Core™ Processors & 12th Gen Intel® Core™ Chipset

Intel® W680 Chipset

4 x DIMM, Max, 128GB, DDR5 ECC and Non-ECC Un-

buffered Memory Dual Channel Memory Architecture

Supports Intel® Extreme Memory Profile (XMP)

- 1 x DisplayPort** 1 x HDMI® port***
- 1 x VGA port
- * Graphics specifications may vary between CPU types. Please
- refer to www.intel.com for any updates **Supports max. 8K@60Hz as specified in DisplayPort 1.4.
- ***Supports 4K@60Hz as specified in HDMI 2.1.

Intel® 13th & 12th Gen Processors'

- 2 x PCIe 5.0 x16 slots (support x16 or x8 / x8 mode)
- Intel® W680 Chipset
- 2 x PCIe 3.0 x16 slots (supports x4 mode) - 1 x PCle 3.0 x1 slot

Total supports 3 x M.2 slots and 8 x SATA 6Gb/s ports

Intel® 13th & 12th Gen Processors - M.2_1 slot (Key M), type 2242/2260/2280 (supports PCIe 4.0

x4 mode) Intel® W680 Chipset**

- M.2_2 slot (Key M), type 2242/2260/2280 (supports PCIe 4.0 x4 mode)

- M.2_3 slot (Key M), type 2242/2260/2280/22110 (supports PCIe 4.0 x4 mode)
- 4 x SATA 6Gb/s ports
- 1 x SlimSAS Slot Support SlimSAS NVMe device (supports PCIe 4.0 x4 mode and up to 4 SATA devices)*
- Intel® Rapid Storage Technology supports PCIe RAID
- 0/1/5/10, SATA RAID 0/1/5/10.

** Intel® Rapid Storage Technology supports Intel® Optane Memory H Series on PCH attached M.2 slots.

*** SlimSAS slot can support up to 4 SATA devices via a transfer cable. the cable is perchased seperately.

2 x Intel® 2.5Gb Ethernet Wireless & Bluetooth M.2 slot only (Key E, CNVi & PCle)* *Wi-Fi module is sold separately.

USE

- Rear USB (Total 8 ports) - 2 x USB 3.2 Gen 2 ports (1 x Type-A, 1 x Type-C®)
- 4 x USB 3.2 Gen 1 ports (4 x Type-A)
- 2 x USB 2.0 ports (2 x Type-A)

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- Front USB (Total 7 ports) 1 x USB 3.2 Gen 2x2 connector (supports USB Type-C®) - 1 x USB 3.2 Gen 1 header supports additional 2 USB 3.2 Gen
- 2 x USB 2.0 headers support additional 4 USB 2.0 ports

- Realtek 7.1 Surround Sound High Definition Audio CODEC - Supports: Jack-detection, Multi-streaming, Front Panel Jack-
- retasking - Supports up to 24-Bit/192 kHz playback"
- Audio Features
- Audio Shielding
- Premium audio capacitors
- Dedicated audio PCB lavers
- Unique de-pop circuit

- -2 x USB 3.2 Gen 2 ports (1 x Type-A, 1 x Type-C®) -4 x USB 3.2 Gen 1 ports (4 x Type-A)
- -2 x USB 2.0 ports (2 x Type-A)
- -1 x DisplayPort
- -1 x HDMI® port
- -1 x VGA port
- -2 x Intel® 2.5Gb Ethernet ports
- -5 x Audio jacks
- -1 x BIOS FlashbackTM button

Internal I/O Conne

- Fan and Cooling related 1 x 4-pin CPU Fan header
- 1 x 4-pin CPU OPT Fan header
- 1 x 4-pin W PUMP+ header
- 3 x 4-pin Chassis Fan headers

- 1 x 24-pin Main Power connector
- 1 x 8-pin +12V Power connector
- 1 x 4-pin +12V Power connector
- 1 x 6-pin PCIe Power connector

- 3 x M.2 slots (Key M)
- 4 x SATA 6Gb/s ports
- 1 x SlimSAS port
- USE
- 1 x USB 3.2 Gen 2x2 connector (supports USB Type-C®) 1 x USB 3.2 Gen 1 header supports 2 additional USB 3.2 Gen
- 1 ports
- 2 x USB 2.0 headers support 4 additional USB 2.0 ports

- 1 x LPT header
- 1 x T-sensor 1 x Clear CMOS header
- 1 x COM Port header
- 1 x BMC Header
- 1 x Front Panel Audio header (AAFP)
- 1 x Start button
- 1 x Flexkey button 1 x SPI TPM header (14-1pin)
- 1 x 20-3 pin System Panel header with Chassis intrude
- function

Specifications are subject to change without notice. Items pictured may only be representative. Please visit our website for the latest product information.

- 1 x M.2 slot (Key E) 1 x LPT P80 Switch
- 1 x Thunderbolt™ header

5X PROTECTION III

- DIGI+ VRM (- Digital power design with DrMOS)
- ESD Guards
- LANGuard
- Overvoltage Protection - SafeSlot

Device [yellow green

VRM heatsink design

- CPU Socket lever protector

- BIOS FlashBack™ button

IT Management software supported

256 Mb Flash ROM, UEFI AMI BIOS

Windows® 11, Windows® 10 64-bit

500W, 550W, 600W, 650W, 750W, 850W, 950W, 1000W,

- BIOS FlashBack™ LED

Exclusive Software

Control Center Express

Armoury Crate

- Fan Xpert 4

CPU-Z

WinRAR

F7 DIY CrashFree BIOS 3

EZ Flash 3

Manageability WOL by PME, PXE

Form Factor

Power Supply

Tower

1200W

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get in touch with our server experts

FlexKey

BIOS

- Power Saving

Thermal Solution

- M.2 heatsink

SafeDIMM

- SafeSlot

- Stainless-Steel Back I/O

Q-D

- Q-Code - M.2 Q-Latch
- Q-Connector
- Q-DIMM - Q-LED (CPU [red], DRAM [yellow], VGA [white], Boot

- Q-Slot

F7 DIY