

# Apogean



## Apogean Single Socket Intel Core 14th/13th/12th Gen Processor Workstation IS4T-C9-M

### Key Features

- CPU Support - Support Intel® Core™ 14th/ 13th/ 12th Gen Processors
- CPU Socket - LGA 1700
- Chipset - Intel® Z790 Chipset
- Expansion Slots - 1x PCIe 5.0 x16 slot  
1x PCIe 4.0 x16 slot 2x PCIe 3.0 x1 slots
- Display Interface - Support 4K@60Hz as specified in HDMI 2.1, DisplayPort 1.4 – Requires

### Processor Graphics

- Memory Support - 4 DIMMs, Dual Channel DDR5 7200+MHZ(OC)
- Storage - 4x M.2 Gen4 x4 64Gbps slots, 6x SATA 6Gbps ports
- USB ports - 1x USB 3.2 Gen 2x2 20Gbps (1 Type-C), 4x USB 3.2 Gen 2 10Gbps (3 Type-A + 1 Type-C), 4x USB 3.2 Gen 1 5Gbps (4 Type-A), 6x USB 2.0
- LAN - Intel® 2.5G LAN
- WiFi / BT - Intel® Wi-Fi 6E, Bluetooth 5.3
- Audio - 8-Channel (7.1) HD Audio with Audio Boost 5

## Apogean

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## Specifications

### Chipset

INTEL Z790

### CPU

Support Intel® Core™ 14th/ 13th/ 12th Gen Processors, Intel® Pentium® Gold and Celeron® Processors

LGA 1700

### Memory

4x DDR5, Maximum Memory Capacity 256GB Memory Support 7200+(OC)/ 7000(OC)/ 6800(OC)/ 6600(OC)/ 6400(OC)/ 6200(OC)/ 6000(OC)/ 5800(OC)/ 5600(JEDEC)/ 5400(JEDEC)/ 5200(JEDEC)/ 5000(JEDEC)/ 4800(JEDEC) MHZ

#### Max. overclocking frequency:

1DPC 1R Max speed up to 7200+ MHz

1DPC 2R Max speed up to 6600+ MHz

2DPC 1R Max speed up to 6400+ MHz

2DPC 2R Max speed up to 5600+ MHZ

Supports Intel® XMP 3.0 OC

Supports Dual-Controller Dual-Channel mode

Supports non-ECC, un-buffered memory

Realtek® ALC4080 Codec

### Audio

7.1-Channel USB High Performance Audio Supports S/PDIF output

4x M.2

### Storage

M.2\_1 Source (From CPU) supports up to PCIe 4.0 x4 , supports 22110/2280/2260/2242 devices

M.2\_2 Source (From Chipset) supports up to PCIe 4.0 x4 , supports 2280/2260/2242 devices

M.2\_3 Source (From Chipset) supports up to PCIe 4.0 x4 / SATA mode, supports 2280/2260/2242 devices

M.2\_4 Source (From Chipset) supports up to PCIe 4.0 x4 / SATA mode, supports 2280/2260/2242 devices

4x3.5"/2.5" SATA 6G drive slots

### LAN

Intel® 2.5Gbps LAN

### Onboard Graphics

1x HDMI™

Support HDMI™ 2.1 with HDR, maximum resolution of 4K 60Hz

1x DisplayPort

Support DP 1.4, maximum resolution of 8K 60Hz

3x PCI-E x16 slot

1x PCI-E x1 slot

### SLOT

PCI\_E1 Gen PCIe 5.0 supports up to x16 (From CPU)

PCI\_E2 Gen PCIe 3.0 supports up to x1 (From Chipset)

PCI\_E3 Gen PCIe 4.0 supports up to x4 (From Chipset)

PCI\_E4 Gen PCIe 3.0 supports up to x1 (From Chipset)

### 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

2x USB 2.0 (Rear)

4x USB 2.0 (Front)

2x USB 2.0 ports (Rear)

4x USB 2.0 ports (Front)

2x USB 5Gbps Type A (Rear)

2x USB 5Gbps Type A (Front)

3x USB 10Gbps Type A (Rear)

1x USB 10Gbps Type C (Front)

1x USB 20Gbps Type C (Rear)

### Wireless Lan & Bluetooth

Intel® Wi-Fi 6E

The Wireless module is pre-installed in the M.2 (Key-E) slot

Supports MU-MIMO TX/RX, 2.4GHz / 5GHz / 6GHz (160MHz) up to 2.4Gbps

Supports 802.11 a/ b/ g/ n/ ac/ ax

Supports Bluetooth® 5.3, FIPS, FISMA

### Back Panel Ports

1.DisplayPort

2.USB 2.0

3.2.5G LAN

4.Wi-Fi / Bluetooth

5.Audio Connectors

6.HDMI™

7.Flash BIOS Button

8.USB 3.2 Gen 1 5Gbps (Type-A)

9.USB 3.2 Gen 2 10Gbps (Type-A)

10.USB 3.2 Gen 2x2 20Gbps (Type-C)

S/PDIF-OUT

### Operating System

Support for Windows® 11 64-bit, Windows® 10 64-bit, Ubuntu

### Form Factor

Tower