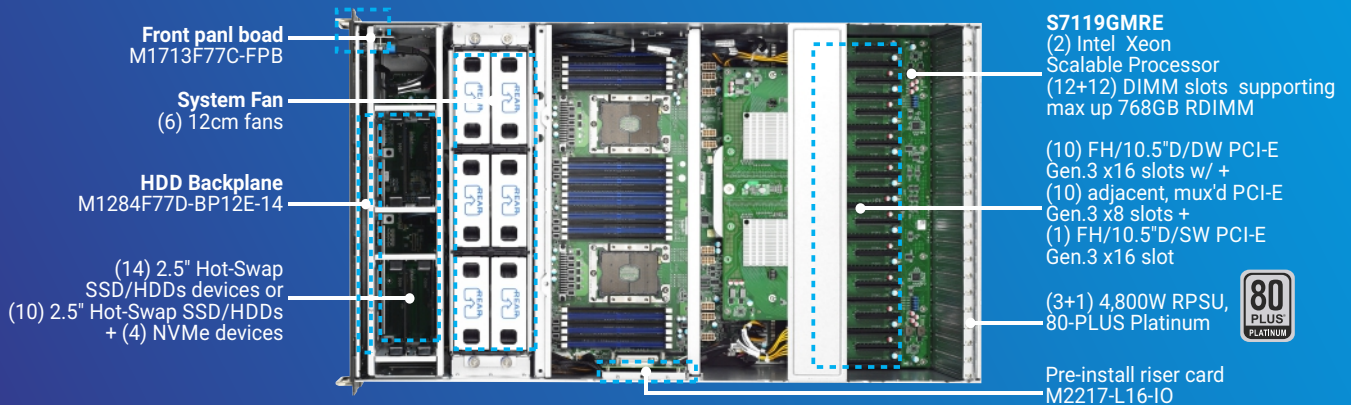# Apogean

# APOGEAN 4U2S 10-GPGPU SERVER PLATFORM
## ID144U-S2-7119-T

- ⑩ Max up to (14) 2.5" Hot-Swap SSD/HDDs devices or (10) 2.5" Hot-Swap SSD/HDDs + (4) NVMe devices

- ⑩ Dual LGA3647 socket supports (2) Intel® Xeon® Scalable Processor or (2) 2nd Gen Intel® Xeon® Scalable Processor

- ⑩ (12+12) DIMM slots DDR4 RDIMM/RDIMM 3DS/LRDIMM/LRDIMM 3DS 2666

- ⑩ Supporting up to 768GB RDIMM/ 1,536GB LRDIMM/ 3,072GB RDIMM 3DS/LRDIMM 3DS *Follow latest Intel DDR4 Memory POR

- ⑩ (11) PCI-E Gen3 x16 slots

- ⑩ (1) PCI-E Gen3 x16 Tyan mezzanine slot

- ⑩ (2) 10GbE ports (Intel® X540-BT2) or (2) 10GbE ports (Intel® X550-BT2) + (1) dedicate IPMI port (Realtek® RTL8211E)

- ⑩ Onboard BMC w/ IPMI and iKVM support

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## TOP VIEW

**Front panl boad**
M1713F77C-FPB

**System Fan**
(6) 12cm fans

**HDD Backplane**
M1284F77D-BP12E-14

(14) 2.5" Hot-Swap
SSD/HDDs devices or
(10) 2.5" Hot-Swap SSD/HDDs
+ (4) NVMe devices

**S7119GMRE**
(2) Intel Xeon
Scalable Processor
(12+12) DIMM slots supporting
max up 768GB RDIMM

(10) FH/10.5"D/DW PCI-E
Gen.3 x16 slots w/ +
(10) adjacent, mux'd PCI-E
Gen.3 x8 slots +
(1) FH/10.5"D/SW PCI-E
Gen.3 x16 slot

(3+1) 4,800W RPSU,
80-PLUS Platinum

Pre-install riser card
M2217-L16-IO

80 PLUS PLATINUM

# ID144U-S2-7119-T

| System | Form Factor | 4U Rackmount |
|---|---|---|
| | Chassis Name | FA77 |
| | Dimension (D x W x H) | 30.31" x 17.24" x 6.93" (770 x 438 x 176mm) |
| | Motherboard | S7119GMRE |
| | Gross Weight | 45 kg (99.5 lbs) |
| | Net weight | 26 kg (57.5 lbs) |
| Front Panel | Buttons | (1) RST, (1) ID, (1) PWR w/ LED |
| | LEDs | (1) HDD, (1) ID, (3) LAN, (1) Warning |
| | I/O Ports | (2) USB 3.0 ports |
| External Drive Bay | Type / Q'ty | 2.5" Hot-Swap SSD/HDDs/ (14) or 2.5" Hot-Swap SSD/HDD + NVMe/ (10) + (4) |
| | HDD backplane support | SAS 12Gb/s, SATA 6Gb/s, NVMe or SAS 12Gb/s, SATA 6Gb/s |
| | Supported HDD Interface | (14) SATA 6Gb/s or (10) SATA 6gb/s + (4) NVMe |
| System Cooling Configuration | FAN | (6) 12cm fans |
| Power Supply | Type | RPSU |
| | Input Range | AC 100-127V/12.9A , AC 200-240V/9.5A |
| | Efficiency | 80-PLUS Platinum |
| | Output Watts | 3,000 Watts (100-127Vac input) / 4,800Watts (200-240Vac input) |
| | Redundancy | 3+1 |
| Processor | Supported CPU Series | (2) Intel® Xeon® Scalable Processor |
| | Thermal Design Power (TDP) wattage | Max up to 205W |
| Chipset | Chipset | Intel® C621 |
| | Switch IC | (2) PLX PEX8796 |
| Memory | Supported DIMM Qty | (12+12) DIMM slots |
| | DIMM Type / Speed | DDR4 RDIMM/RDIMM 3DS/LRDIMM/LRDIMM 3DS 2666 |
| | Capacity | Up to 768GB RDIMM/ 1,536GB LRDIMM/ 3,072GB RDIMM 3DS/LRDIMM 3DS *Follow latest Intel® DDR4 Memory POR |
| | Memory channel | 6 Channels |
| | Memory voltage | 1.2V |
| Expansion Slots | PCI-E | (11) PCI-E Gen3 x16 slots (1) PCI-E Gen3 x16 Tyan mezzanine slot |
| | Pre-install TYAN RiserCard | M2217-L16-IO |
| | Pre-install TYAN Mezz Card | M7076-X540-2T |
| | Others | - |
| LAN | Port Q'ty | (3) |
| | Controller | Intel® X540-AT2 |
| | PHY | Realtek® RTL8211E |

| Storage | SATA | Connector | (2) Mini-SAS HD (8-ports) |
|---|---|---|---|
| | | Controller | Intel® C621 |
| | | Speed | 6.0 Gb/s |
| | | RAID | RAID 0/1/10/5 (Intel® RSTe) |
| | sSATA | Connector | (2) SATA-III, (1) Mini-SAS HD (4-ports) |
| | | Controller | Intel® C621 |
| | | Speed | 6.0 Gb/s |
| | | RAID | RAID 0/1/10/5 (Intel® RST) |
| | NVMe | Controller | (2) PCI-E x8 SFF-8612 OCuLink connectors for (4) NVMe ports |
| Graphic | | Connector type | D-Sub 15-pin |
| | | Resolution | Up to 1920x1200 |
| | | Chipset | Aspeed AST2500 |
| Input /Output | | USB | (2) USB3.0 ports (at front) |
| | | COM | (1) DB-9 COM port (at front) |
| | | VGA | (1) D-Sub 15-pin (at front) |
| | | RJ-45 | (2) 10GbE ports; (1) dedicate GbE port for IPMI |
| TPM (Optional) | | TPM Support | Please refer to our TPM supported list. |
| System Monitoring | | Chipset | Onboard Aspeed AST2500 |
| | | Voltage | Monitors voltage for CPU, memory, chipset & power supply |
| | | Temperature | Monitors temperature for CPU & memory & system environment |
| | | LED (On system front panel) | Over temperature warning indicator, Fan & PSU fail LED indicator |
| | | Others | Watchdog timer support |
| Server Management | | Onboard Chipset | Onboard Aspeed AST2500 |
| | | AST2500 iKVM Feature | 24-bit high quality video compression / Supports storage over IP and remote platform-flash / USB 2.0 virtual hub |
| | | AST2500 IPMI Feature | IPMI 2.0 compliant baseboard management controller (BMC) / 10/100/1000 Mb/s MAC interface |
| BIOS | | Brand / ROM size | AMI / 32MB |
| | | Feature | Hardware Monitor, SMBIOS 3.0/PnP/Wake on LAN, Boot from USB device/PXE via LAN/Storage, User Configurable FAN PWM Duty Cycle, Console Redirection, ACPI sleeping states S4,S5, ACPI 6.1 |
| Operating System | | OS supported list | Please refer to our Intel OS supported list. |
| Regulation | | FCC (DoC) | Class A |
| | | CE (DoC) | Class A |
| | | VCCI | Class A |
| | | RCM | Class A |
| | | CB/LVD | Yes |
| Operating Environment | | Operating Temp. | 10° C ~ 35° C (50° F~ 95° F) |
| | | Non-operating Temp. | - 40° C ~ 70° C (-40° F ~ 158° F) |
| | | In/Non-operating Humidity | 90%, non-condensing at 35° C |
| RoHS | | RoHS 6/6 Complaint | Yes |

(Specifications are subject to change without notice. Items pictured may only be representative.)

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