

Apogean Server with Intel® Xeon® 6700P, 6500P and 6700E Series Processors

ID41U-X6-A / ID82U-X6-A / ID122U-X6-A / ID242U-X6-A
/ ID163U-X6-A / ID244U-X6-A / ID364U-X6-A



Items pictured may only be representative.

Features

- Supports Intel® Xeon® 6700P-series, 6500P-series, and 6700E-series processors
- 8+8 DIMM slots (1DPC); supports DDR5 RDIMM, MRDIMM
- 5 PCIe5.0 / CXL2.0 x16 and 1 PCIe5.0 / CXL2.0 x8 Slots
- 1 MCIO (PCIe5.0 / CXL2.0 x8) Port
- 2 M.2 (PCIe5.0 x2) Slots
- 2 RJ45 (10GbE) by Intel X710-AT2
- Remote management (IPMI)

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Specifications:

Physical Status

Form Factor Rackmount 1U/2U/3U/4U Rackmount (As per the Drive Slots)

Processor System

CPU Supports Intel® Xeon® 6700P-series, 6500P-series, and 6700E-series processors

Socket 1+1 Socket E2 (LGA 4710)
Chipset System on Chip

System Memory

Supported DIMM 8+8 DIMM slots (1DPC)
Quantity
Supported Type DDR5 RDIMM
DDR5 MRDIMM (1DPC only)
RDIMM: 128GB
MRDIMM: 64GB

Max. Capacity per DIMM MRDIMM: 64GB

Max. DIMM Frequency RDIMM: 6400MT/s
MRDIMM: 8000MT/s

Voltage 1.1V

PCIe Expansion Slots (SLOT7 close to CPU)

PCIe x 16 SLOT1:PCIe5.0 / CXL2.0 x16 [CPU1]
SLOT2:PCIe5.0 / CXL2.0 x16 [CPU0]
SLOT3:PCIe5.0 / CXL2.0 x16 [CPU1]
SLOT4:PCIe5.0 / CXL2.0 x16 [CPU0]
SLOT5:PCIe5.0 / CXL2.0 x16 [CPU1]
SLOT6:PCIe5.0 / CXL2.0 x8 [CPU0]

PCIe x 8

TPM

TPM support 1 (13-pin, SPI)

Other PCIe Expansion

Connectors

M.2 slot 2 M-key (PCIe5.0 x2), supports 22110/2280 form factor [CPU0]
Others 1 M.2 (PCIe5.0 / CXL2.0 x8) [CPU0]

SATA/SAS Storage

Drive Slots 4 x 3.5/2.5" Drive Slots - 1U Rack
8/12 x 3.5/2.5" Drive Slots - 2U Rack
24 x 2.5" Drive Slots - 2U Rack
16 x 3.5/2.5" Drives Slots - 3U Rack
24 x 3.5/2.5" Drives Slots - 4U Rack
36 x 3.5/2.5" Drives Slots - 4U Rack
Note: Additional RAID/HBA Card is required for 12 and above drive slots SKUs.

Ethernet

Additional GbE Controller 2 RJ45 (10GbE) by Intel® X710-AT2

Server Management

BMC Controller ASPEED AST2600: IPMI2.0 with iKVM and vMedia support
IPMI Dedicated GLAN 1 Realtek RTL8211F for dedicated management GLAN

Graphics

Controller ASPEED AST2600:
1 DB15 (VGA)

Supported OS

OS **Microsoft® Windows® Linux**
- Server 2022 (64 bit) - Red Hat Enterprise Linux Server 9.4 (64 bit)
- Server 2025 (64 bit) - SUSE Enterprise Linux Server 15 SP6 (64 bit)
- Ubuntu 24.04 (64 bit)

Rear I/O

UID Button/LED 1 UID button w/ LED
Video Port 1 DB15 (VGA)
USB 3.2 Gen1 Port 2 Type-A (UBS3.2 Gen1)
RJ45 2 RJ45 (10GbE), 1 dedicated IPMI

Internal

Connector/Headers

Power Connector 1 (24-pin, ATX main power), 4 (8-pin, ATX 12V)
Auxiliary Panel Header 1 (18-pin): chassis intrusion, system fault LED, LAN1/LAN2 activity LED, locate, SMBus.
System Panel 1 (9-pin): power switch, reset switch, system power LED, HDD activity LED.
COM Header 1 (9-pin)
Fan Header 8 (6-pin)
TPM Header 1 (13-pin, SPI)
HSBP 2
SMBus header 2
PMBus header 1
IPMB Header 1
Clear CMOS 1 (contact pads)
Others 1 RAID header, 1 Micro SD card slot
USB 3.2 (Gen1) Header 1 header (19-pin, 2 USB3.2 Gen1)
NMI Header 1

LED Indicators

Standby PWR LED 1 (5VSB)
80 Debug Port LED 1
Fan Fail LED 80
BMC heartbeat LED 1
Others LED 1 CPLD Heartbeat LED, 1 System Caterr LED

System BIOS

BIOS Type AMI UEFI BIOS; 512Mb SPI Flash ROM
BIOS Features Plug and Play, ACPI 4.0 and above compliance wake up events, SMBIOS 3.4 and above, instant flash

Hardware Monitor

Temperature CPU, MB, Card side Temperature Sensing
Fan Tachometer
Fan Fan Tachometer
CPU Quiet Fan (Allow Chassis Fan Speed Auto-Adjust by CPU Temperature)
Fan Multi-Speed Control
Voltage PSU +12V & +5VSB & +3.3V, +3VSB, PVNN_PCH, P1V05_PCH_STBY, P1V8_PCH_STBY, +BAT, PVCCIN_CPU0, PVCCIN_CPU1, PVCCINFAON_CPU0, PVCCINFAON_CPU1, PVCCFA_EHV_FIVRA_CPU0, PVCCFA_EHV_FIVRA_CPU1, PVCCD_HV_CPU0, PVCCD_HV_CPU1
Power Supply Single/Dual : 500W, 800W, 1200W, 1600W, 2000W, 2400W

Environment

Temperature Operation temperature: 10°C ~ 35°C / Non operation temperature: -40°C ~ 70°C
Humidity Non operation humidity: 20% ~ 90% (Non condensing)