

# Apogean Dual Socket Intel Xeon Scalable 3rd Gen Rackmount Server

ID41U-S3-T / ID82U-S3-T / ID122U-S3-T /  
ID163U-S3-T / ID242U-S3-T / ID244U-S3-T  
/ ID364U-S3-T



## Key Features

- 2S Intel Ice Lake SP CPU □ 2 NVMe 22110 / 2280 M.2 slots
- 2 1000Base-T LAN + 1 dedicate
- 1000Base-T IPMI ports
- 16 DIMM slots w/DDR4-3200 memory support
- 3 PCIe Gen. 4 x16 + 2 PCIe Gen.4 x8 slots
- AST2600 BMC with IPMI 2.0 & Redfish support
- 2 PCIe x8 SlimSAS connectors (NVMe)

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## Specifications:



### • Processor System

Qty / Socket Type	(2) LGA4189
Supported CPU Series	3rd Gen. Intel Xeon Scalable Processors
Thermal Design Power Wattage	Max up to 270W (TDP)
System Bus	Up to 11.2/10.4 GT/s with Intel UltraPath Interconnect (UPI) support

### • Chipset

PCH	Intel Intel C621A
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### • Memory

Supported DIMM Qty	(8)+(8) DIMM slots
DIMM Type / Speed	DDR4 ECC RDIMM/RDIMM 3DS/LRDIMM/ LRDIMM 3DS 3200
Max. Capacity per DIMM	Up to 2,048GB RDIMM/ 4,096GB LRDIMM/4,096GB RDIMM 3DS/LRDIMM 3DS
Memory channel	8 Channels per CPU
Memory voltage	1.1V

### • PCIe Expansion Slots

PCIe	((2) PCIe Gen.4 x8 slots / (3) PCIe Gen.4 x16 slots
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### • LAN

Qty / Port	(2) GbE ports + (1) GbE dedicated for IPMI
Controller	Intel I210-AT
PHY	Realtek RTL8211E

### • SATA Storage

Drive Slots	4 × 3.5/2.5 Drive Slots 1U Rack 8/12 × 3.5/2.5 Drive Slots 2U Rack 16 × 3.5/2.5 Drive Slots 3U Rack 24 × 3.5/2.5 Drive Slots 4U Rack 36 × 3.5/2.5 Drive Slots 4U Rack <b>Note : RAID Card is must for 12 and above drive slots SKUs.</b>
Controller	Intel C621A
Speed	6Gb/s
RAID	RAID 0/1/10/5 (Intel RSTe)

### •Storage NVMe

Connector (M.2)	(2) 22110/2280 (by PCIe interface)
Connector (U.2)	(2) SFF-8654 for (4) NVMe ports

### Storage (optional)

VROC Support	Yes
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### • Graphic VGA

Connector type	D-Sub 15-pin
Resolution	Up to 1920x1200
Chipset	Aspeed AST2600

### • Physical Dimension

Form Factor	Rackmount 1U/2U/3U/4U (As per the Drive Slots)
Power Supply	Single/Dual : 500W, 800W, 1200W, 1600W, 2000W, 2400W

### • Input /Output

USB	(2) USB3.0 ports ( @ rear)
COM	(2) headers
VGA	(1) D-Sub 15-pin VGA port (@ rear)
RJ-45	(2) GbE ports + (1) GbE dedicated for IPMI
Front Panel	(1) 2x12-pin SSI front panel header
SATA	(1) ID button
Power	(3) Mini-SAS HD from PCH SATA-III
Other	SSI 24-pin + 8-pin + 8-pin power connectors

### • TPM (Optional)

TPM Support	Please refer to our TPM supported list.
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### • System Monitoring

Chipset	ASPEED AST2600
Fan	Total (5) 4-pin headers
Temperature	Monitors temperature for CPU, memory & system environment
Voltage	Monitors voltage for CPU, memory, chipset & power supply
LED	Over temperature warning indicator / Fan & PSU fail LED indicator
Others	Watchdog timer support

### • Audio

Chipset	Realtek ALC888S
Feature	2.1 ch

### • Server Management

Onboard Chipset	Onboard Aspeed AST2600
AST2600 iKVM	24-bit high quality video compression / Supports storage over IP and remote platform-ash / USB 2.0 virtual hub
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 / Boot from USB device/PXE via LAN/Storage / Console Redirection / User Configurable FAN PWM Duty Cycle / SMBIOS 3.0/ PnP/Wake on LAN / ACPI 6.1 / ACPI sleeping states S4,S5

### • Certifications

BIS	Yes
QCI	Yes
ISO	9001, 14001 & 27001

### • Operating Environment

Operating Temp.	0° C ~ 40° C (32° F ~ 104° F)
Non-operating Temp.	- 40° C ~ 70° C (-40° F ~ 158° F)
In/Non-operating Humidity	90%, non-condensing at 35° C