ADLINK
LEADING EDGE AI COMPUTING

AXE-7420GWA

Datasheet

4U Short-depth AI GPU Server with Intel® Xeon® 600 Processors for Workstations

Features

- 4U chassis with a single Intel® Xeon® 600 Processors for Workstations, up to 350W TDP
- 12-slot expansion design, including 3x PCIe x16 & 4x PCIe x8 (x2 via MICO) & 4x PCIe x4 (x2 via MICO)
- Up to 2x GPU cards
- Short-depth Chassis (550mm) maximizes rack space efficiency for compact deployments
- Up to 8x 2.5”/3.5”SATA HDD (or 1x CD-ROM), 2x SlimSAS SSD



Specifications

System	Form Factor	4U 19” Rackmount
	Dimension (WxDxH)	438 x 550 x 177mm (17.23 x 21.65 x 6.95 inch)
	Gross Weight	21.4kg (47.18 lbs)
	Net Weight	18.1kg (39.90 lbs)
Processor	Socket Type	Socket E2, LGA 4710 socket
	Support CPU Series	Single Intel® Xeon® 600 Processors for Workstations, up to 350W TDP
	TDP	Support up to 350W
Chipset	PCH	W890
GPU	Type	2x FHFL GPU Gen5 x16
Memory	Slot Count	8x DIMM slots
	Capacity	1TB, 128GBx 8 slot (note)
	DIMM Type/Speed	4 Channel DDR5, 8 slots DDR5 RDIMM ECC Memory speed: Up to 6400MT/S (1DPC), 5200 MT/S (2DPC)
Storage	SATA	4x SATA III slots, SATA RAID 0/1/5/10 supported by PCH or Up to 8x SATA III slots, SATA RAID 0/1/5/10 supported by PCH (optional)
	SlimSAS	2x SlimSAS slots from Intel W890 (optional)
	M.2 (2242/2280)	2x M.2(M-Key) NVMe #1 support 2280/22110/25110 #2 support 2280/22110

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Specifications

PCIe Expansion Slot	Configuration	2x PCIE 5.0 x16, 1x PCIE 4.0 x16 1x PCIE 5.0 x8, 1x PCIE 4.0 x8 1x PCIE 5.0 x4, 1x PCIE 4.0 x4 2x PCIE 5.0 x8, 2x PCIE 5.0 x4 with extension board
Cooling	System Fan	3x fan modules (80x38 fan) 1x fan modules in rear end (60x 25 fan)
Power Supply	PSU Type	ATX PS2
	Efficiency	80 Plus Titanium
	Output Watts	1650W
	Voltage	100V to 240V AC @50-60Hz
Front I/O	LEDs	Power on x1, system event x1, thermal alarm x1
	USB	2x USB 2.0
	Others	1x Power button 1x Reset hole
Rear I/O	LAN	1x 1Gb RJ45 Ethernet port (shared with IPMI Management LAN) 1x 2.5Gb RJ45 Ethernet port
	COM	1x DB-9 COM connector with RS-232/422/485
	USB	5x Type A USB3.2 Gen2 10Gbps 1x Type C USB3.2 Gen2 10Gbps
	Graphic	1x D-Sub 15-pin VGA port 1x DP port
	Button	1x Clear CMOS reset hole button
Security	TPM (Optional)	TPM 2.0 module SPI
BMC Controller	Chipset	ASPEED AST2600 with IPMI 2.0 and Redfish support
BIOS	Chipset	AMI BIOS on SPI flash memory
Environment	Temperature	Operating: 0°C to +40°C， Storage: -40°C to +70°C Relative Humidity: 10%-85% in the long term and 5%-90% in the short term
Operation system	OS	Windows® 11 LTSC (64 bit) Ubuntu 24.04 (64 bit)

* Follow the latest Intel® Memory POR

Ordering Information

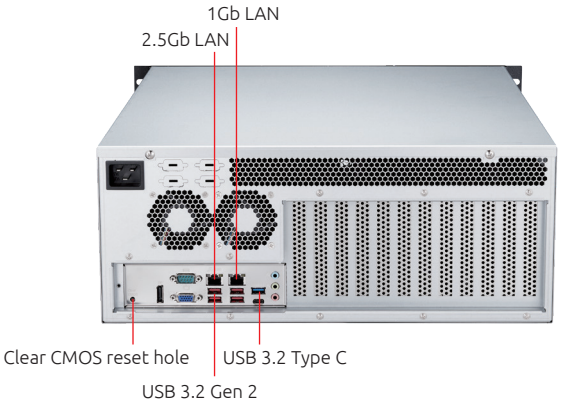
Part Number	Description
93-22811-000E	AXE-7420GWA Barebone

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Front View



Rear View



CPU Selection Guide

Processor Number	Cores/ Threads	Intel® Smart Cache LLC	Base / Max Turbo Frequency	PCIe Lanes	Notes
Intel® Xeon® 698X	86 / 172	336	2.0 / 4.6	128	Extreme high-end for massive virtualization or complex, multi-model workloads
Intel® Xeon® 696X	64 / 128	336	2.4 / 4.6	128	High core density for data center-grade edge nodes
Intel® Xeon® 678X	48 / 96	192	2.4 / 4.7	128	High-performance AI inference & heavy multitasking
Intel® Xeon® 656	20 / 40	72	2.9 / 4.6	128	Enough cores for automation
Intel® Xeon® 654	18 / 36	72	3.1 / 4.6	128	
Intel® Xeon® 636	12 / 24	48	3.5 / 4.5	80	Suitable for budget Edge Servers needing minimal high-end GPUs
Intel® Xeon® 634	12 / 24	48	2.7 / 4.4	80	

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