

ServMax® X-220B

2U Dual Socket Intel Xeon 6900P Processors Server



Features

- Dual Intel® Xeon® 6900-Series Processors with P-cores up to 500W
- Up to 24 DIMMs supporting up to 6TB 6400MT/s DDR5 RDIMM or 3TB 8800MT/s DDR5 MRDIMM
- Optional PCIe slot configurations up to 8 PCIe 5.0 x8 or 4 PCIe 5.0 x16 slots with support for double-width GPU/Accelerator cards
- Flexible networking options with up to 2 AIOM networking slots (OCP NIC 3.0 compatible)
- 8x 2.5" hot-swap NVMe/SATA/SAS drive bays with optional configurations for 16x/24x 2.5" hot-swap NVMe/SAS/SATA drive bays; 2x internal M.2 NVMe drive slots; Optional RAID support via storage add-on card

Applications

- Artificial Intelligence (AI), Virtualization, High Performance Computing, Data Analytics

Specifications

Form Factor	<ul style="list-style-type: none"> • 2U Rackmount • Enclosure: 437 x 88.9 x 806.2mm (17.2" x 3.5" x 31.74") • Package: 672 x 253 x 1100mm (26.46" x 9.96" x 43.31")
Processor	<ul style="list-style-type: none"> • Dual Socket BR (LGA-7529) • Intel® Xeon® 6900 series processors with P-cores • Up to 128C/256T; Up to 504MB Cache per CPU
GPU	<ul style="list-style-type: none"> • Max GPU Count: Up to 4 double-width or 4 single-width GPUs • CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect
System Memory	<ul style="list-style-type: none"> • Slot Count: 24 DIMM slots • Max Memory (1DPC): Up to 6TB 6400MT/s ECC DDR5 RDIMM • Max Memory (1DPC): Up to 6TB 8800MT/s ECC DDR5 MRDIMM
Drive Bays Configuration	<p>Default: Total 8 bays</p> <ul style="list-style-type: none"> • 8 front hot-swap 2.5" NVMe*/SAS*/SATA* drive bays <p>Option A: Total 16 bays</p> <ul style="list-style-type: none"> • 16 front hot-swap 2.5" NVMe*/SAS*/SATA* drive bays <p>Option B: Total 24 bays</p> <ul style="list-style-type: none"> • 24 front hot-swap 2.5" NVMe*/SAS*/SATA* drive bays <p>(*NVMe/SAS/SATA support may require additional storage controller and/or cables)</p> <p>M.2: 2 M.2 PCIe 5.0 x2 NVMe slots (M-key 2280/22110)</p>
Expansion Slots	<p>PCI-Express (PCIe) Configuration: Option A*</p> <ul style="list-style-type: none"> • 4 PCIe 5.0 x16 FH/10.5"L double-width slots • 2 PCIe 5.0 x16 AIOM slots (OCP 3.0 compatible) <p>Option B*</p> <ul style="list-style-type: none"> • 8 PCIe 5.0 x8 (in x16) FH/10.5"L slots • 2 PCIe 5.0 x16 AIOM slots (OCP 3.0 compatible) <p>CXL Support: Up to 4 CXL 2.0 x16/x8 devices</p>

Specifications	
On-Board Devices	<ul style="list-style-type: none"> • NVMe: NVMe; RAID 0/1/5/10 support (Intel® VROC RAID key required) • Chipset: System on Chip • Network Connectivity: Via AIOM
Input / Output	<ul style="list-style-type: none"> • LAN: 1 RJ45 1 GbE Dedicated BMC LAN port • USB: 2 USB 3.0 ports(rear) • Video: 1 VGA port
System Cooling	<ul style="list-style-type: none"> • Fans: 6 counter-rotating 60x60x56mm Fan(s) • Liquid Cooling: Direct to Chip (D2C) Cold Plate (optional)
Power Supply	<ul style="list-style-type: none"> • 2x 2600W Redundant (1 + 1) Titanium Level (96%) power supplies
System BIOS	<ul style="list-style-type: none"> • BIOS Type: AMI 64MB SPI Flash
Management	<ul style="list-style-type: none"> • AMAX Cloud Composer; AMAX Server Manager (ASM); AMAX Diagnostics Offline (ADO); AMAX Thin-Agent Service (TAS); AMAX Server Automation Assistant (AAA) New!
PC Health Monitoring	<ul style="list-style-type: none"> • CPU: Monitors for CPU Cores, Chipset Voltages, Memory • Fans with tachometer monitoring Status monitor for speed control • Pulse Width Modulated (PWM) fan connectors • Temperature: Monitoring for CPU and chassis environment • Thermal Control for fan connectors
Operating Environment	<ul style="list-style-type: none"> • Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F) • Non-operating Temperature: -40°C to 70°C (-40°F to 158°F) • Operating Relative Humidity: 8% to 90% (non-condensing) • Non-operating Relative Humidity: 5% to 95% (non-condensing)

