



XpertStation WS300

NVIDIA DGX Station™



XpertStation WS300 Powered by NVIDIA GB300

The XpertStation WS300, built on the NVIDIA DGX Station™ architecture, is powered by the NVIDIA GB300 Grace™ Blackwell Ultra Desktop Superchip and features onboard QSFP112 400G Ethernet ports from integrated NVIDIA ConnectX-8 SuperNIC and up to 4 M.2 NVMe drive slots.

Applications

AI Development
Data Science
AI Inference
AI Agents and Physical AI

SPECIFICATIONS

Dimensions (Width x Height x Depth)

245.7mm (9.67") Wx 529.0mm (20.83") Hx 570.4mm (22.46") D

CPU

(1) Grace 72-Core Neoverse V2

GPU

Single NVIDIA Blackwell Ultra GPU

Memory

Up to 748 GB of Coherent Memory

- CPU Memory Up to 496GB LPDDR5X | 396 GB/s

- GPU Memory Up to 252GB HBM3e | 7.1 TB/s

Expansion Slots

(1) PCIe 5.0 x16 FHFL double wide slot

(2) PCIe 5.0 x16 FHFL single wide slots with x8 signals

(1) PCIe 2.0 x1 2230 M.2 for WiFi/BT

Networking

(2) QSFP112 400G Ethernet ports (NVIDIA ConnectX-8)

(1) 10GBase-T Ethernet port with Marvell AQC113

Internal Storage

(2) 2280 PCIe 5.0 x4 NVMe M.2 ports

(Filled with boot drives, connected to the CPU)

(2) 2280 PCIe 6.0 x4 NVMe M.2 ports

(Open and available for expansion, connected to the CX8)

Server Management

(1) 1000Base-T Dedicated Server Management port
ASPEED AST2600 with AMI MegaRAC based firmware supporting IPMI 2.0 and DMTF Redfish API

eMMC for local BMC storage media

Security

Chassis Intrusion

On-board TPM2.0

Hardware Root of Trust - Microchip CEC1736 supported (optional)

Front I/O

The I/Os are located on the top of the chassis

(1) Power Button, (1) Reset Button

(1) HDD LED, (1) 2-way Audio

(2) USB Type C ports, (2) USB3.1 Type A ports

Rear I/O

(1) 1000Base-T Dedicated Server Management port

(2) QSFP112 400G Ethernet ports

(1) 10GBase-T Ethernet port

(4) USB3.1 Type A ports

(1) Mini DP port

(1) 2 ch audio port

(1) Micro USB COM port

Power Supply

(1) 1600W ATX 80 PLUS Platinum

Note: System requires a 20-amp circuit to plug-in.

Cooling

(1) Liquid cooling module for max. 1400W CPU+GPU

(1) 12025 System Fan

Environmental

Operating Temperature: 10°C ~ 30°C (50°F ~ 86°F)

Operating humidity: 10% to 80% (non-condensing)

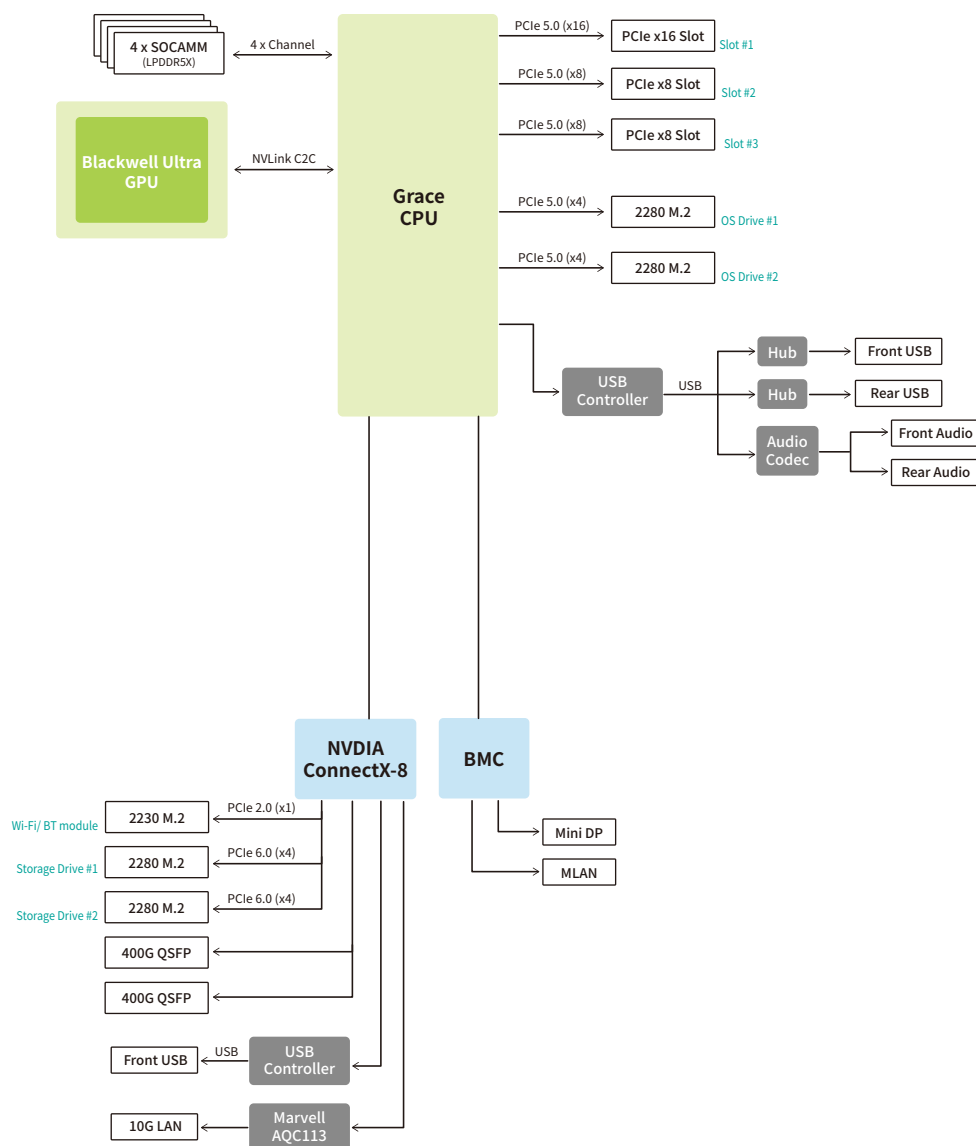
Non-operating Temperature: 5°C ~ 40°C (41°F to 104°F)

Non-operating Relative Humidity: 10% to 80% (non-condensing)

Regulatory

CE, FCC (Class A)

XpertStation WS300 System Block Diagram



Learn more about
MSI servers, visit
<https://eps.msi.com>

Specifications are subject to change
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