



# A96X6-Q | Technical Datasheet

8U AI Server Powered by Intel® Granite Rapids & NVIDIA B300

## Overview

The **A96X6-Q** is an 8U AI server for the B300 platform, featuring liquid-cooling architecture optimized for extreme AI and HPC workloads. Powered by 6th Generation Intel® Xeon® Scalable Processors (Granite Rapids) on the Birch Stream platform, it ensures high compute density with superior thermal efficiency.

Built for cloud datacenters and enterprise AI environments, the A96X6-Q offers unmatched reliability, energy efficiency, and scalability for next-generation AI operations.

## Application

AI Cloud Computing, LLM Training, Inference, HPC

## Product Features

### Excellent Performance

- Intel® Xeon® 6th Gen Scalable Processors (up to 350 W TDP)
- 32 DIMM slots, RDIMM support up to 6400 MT/s
- NVIDIA HGX B300 liquid-cooled support

### Flexible Configuration

- 8 × 800G OSFP integrated in HGX B300
- Supports full-height and half-height NIC cards

### Datacenter-Optimised

- Front I/O access for easy maintenance
- N+N redundant PSU for reliability
- High-efficiency thermal and DC/DC power design



## A96X6-Q AI Server Technical Specifications

<b>CPU</b>	· 2* Intel® Xeon 6700E/6500P/6700P Processor up to 350W
<b>GPU</b>	· 8* HGX B300 liquid cooling
<b>Memory</b>	· Up to 32* DDR5 DIMM Slot, support RDIMM up to 6400MT/s
<b>Storage</b>	· 8* SFF NVMe slot (from switch) · 2* SFF SATA/NVMe slot (from CPU, SATA need Add-in RAID card)
<b>PCIe Extension</b>	· Front PCIe Slot: 4* X16 FHHL/HHHL (from switch) · Option: 1* OCP X16 FHHL(from switch)
<b>Enclosure Management</b>	· BMC: AST2600, 1* dedicated RJ45 MGMT port
<b>IO</b>	· 2* USB3.0 Type-A Receptacle · 1* PWR BTN with 1* PWR Indicator · 1* Status LED · 1* VGA · 1* UART Port Over Type C · 1* UID button& LED · 1* GbE MGMT Port
<b>Cooling</b>	· Cold plate liquid cooling for CPU & GPU
<b>Operating Temp.</b>	· 10°C - 35°C
<b>PSU</b>	· 2* 185mm Redundant 2700W HVDC/AC Input, 12V Output PSUs · 8* 185mm Redundant 3200W HVDC/AC Input, 54V Output PSUs
<b>Dimension</b>	· 352mm (H) x 448mm (W) x 900mm (D)

### ***Partner with Creox to Scale Smarter***

For more information or to book a demo session,  
contact [sales@creoxtech.com](mailto:sales@creoxtech.com)

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