QuantaGrid S44NL-1U

Low-cost Server with Scalable Expansion Options and Optimized Performance

- **AMD EPYC™ 9004 Series Server processor with up to 400W TDP**

- **Powered by NVIDIA® GPU**

- **Designed with a single SP5 Genoa/ Bergamo/ Genoa-X/ Turin processor**

- **PCIe Gen 5 & DDR5 platform ready**

- **Supports up to 2x single-width accelerators in a 1U system**

- **Supports up to 5x PCIe Gen 5 expansion slots with a single processor**

- **Enhanced serviceability with tool-less, hot-plug designs**

About QCT

Quanta Cloud Technology (QCT) is a global datacenter solution provider. We combine the efficiency of hyperscale hardware with infrastructure software from a diversity of industry leaders to solve next-generation datacenter design and operation challenges. QCT serves cloud service providers, telecoms and enterprises running public, hybrid and private clouds.

Product lines include hyper-converged and software-defined datacenter solutions as well as servers, storage, switches, integrated racks with a diverse ecosystem of hardware component and software partners. QCT designs, manufactures, integrates and services cutting edge offerings via its own global network. The parent of QCT is Quanta Computer, Inc., a Fortune Global 500 corporation.

Found at: www.QCT.io/wheretobuy

Ultimate Compute Performance and Workload-driven Architecture

- Powered by a single AMD EPYC™ 9004 Series server processor with up to 400W TDP

- Designed with a single SP5 Genoa/ Bergamo/ Genoa-X/ Turin processor for next gen compatibility

- Advanced air-cooling architecture supporting top-bin 400W TDP CPUs

- Liquid cooling-ready by design

- Up to 5x PCIe Gen 5 expansion slots and the DC-SCM architecture to meet different configurations

- Featuring up to 2x single-width accelerators to support AI inference workloads

- System optimized for cloud, enterprise, AI, HPC, networking, security and IoT workloads

Achieve scalability, flexibility and capability within a 1U1P system

- Flexible drive bay options from E1.S to 2.5" SKUs, all ready for PCIe Gen 5

- Up to 16x E1.S NVMe drives or 12x 2.5" NVMe/SATA/SAS drives, targeting high-performance hot-tier storage, HPC, and enterprise workloads

- Supports 2x M.2 SSDs onboard for OS installation (optional)

- Built-in AI acceleration: supports up to 2x single-width accelerators in a 1U1P system

- Up to 5x PCIe 5.0 slots, supporting 400GbE networking bandwidth in PCIe x16 Gen5 slots in a 1U1P system

Enhanced Security with Intrusion Design

- Alerts the server administrator when the top cover is removed while AC/DC is turned on

- Chassis Intrusion switch sends a signal to the BMC

- The BMC records the chassis open event and saves it into the log

- The server administrator can monitor if anyone ever opens the chassis

Quick Deployment with Great Serviceability

- Tool-less, hot-swap designs for drive trays, riser brackets, PSU and fan modules

- Supports OCP3.0 pull-tab & ejector to allow easy service without opening the chassis

Easy Management

- Delivers secure and dynamic data administration for data center resources with Orqestra (QCT System Manager)

- Monitors up to 5000 devices per Orqestra module

QuantaGrid S44NL-1U Specifications

Processor	**Processor Type:** AMD EPYC™ 9004 Series Server Processors
	Max. TDP Support: cTDP up to 400W
	Number of Processors: (1) Processor
	Internal Interconnect: 16 GT/s
	L3 Cache: Up to 384 MB
Form Factor	1U Rackmount
Dimensions	**W x H x D (inch):** 17.6" x 1.7" x 30.7"
	W x H x D (mm): 447 x 43.2 x 780
Chipset	SoC
Storage	**Default Configuration** 2.5" Hot-plug E1.S Hot-plug SATA/ SAS/ NVME support
	SKU - #1 : (12) 2.5" hot-plug NVMe/SATA/SAS SSD
	SKU - #2 : (16) E1.S hot-plug NVMe SSD
	SKU - #3 : (12) E1.S hot-plug NVMe SSD
Memory	**Total Slots:** 24
	Capacity: Up to 8TB (256Gx32) of memory capacity
	Memory Type: 4800 MHz DDR5 RDIMM/LRDIMM
	Memory Size: 16G, 32G, 64G, 128G, 256G RDIMM/3DS DIMM
Expansion Slot	**Default Configuration** (3) PCIe Gen5 x16 HHHL (2) PCIe Gen5 x16 OCP 3.0 SFF
	SKU - #1 : (2) PCIe Gen5 x16 HHHL (2) PCIe Gen5 x16 OCP 3.0 SFF
	SKU - #2 : (2) PCIe Gen5 x16 FHHL (2) PCIe Gen5 x16 OCP 3.0 SFF
Network Controller	**LOM:** Dedicated (1) GbE management port
	Optional NIC: Broadcom MegaRAID 9560 Series Broadcom HBA 9500 Series Please refer to the CCL(Compatible Component List) for more information
Front I/O	**Front I/O:** Power/ID/Reset Buttons Power/ID/Status LEDs (2) USB 3.0 ports
Storage Controller	**Optional Controller:** (2) 2230/ 2280 PCIe Gen 3 M.2 support for boot optimization

Power Supply	1+1 High efficiency redundant hot-plug 800W/1600W 80 Plus Titanium
Onboard Storage	(2) 2230/ 2280 PCIe Gen 3 M.2
Fan	(7) hot-swap dual rotor fans
Video	Integrated AST2600
	Maximum display resolution is up to 1920x1080p 32bpp@60Hz
System Management	Redfish v1.11
	IPMI v2.0 Compliant, on board "KVM over IP" support
	Orqestra (QCT System Manager) (Optional)
Rear I/O	ID/ PFR/PWR LED
	PWR Button
	(1) USB 3.0 ports
	(1) Mini display port
	(1) COM Port (micro USB type-B)
	(1) RJ45 port
Operating Environment	Operating temperature: 5°C to 35°C (41°F to 95°F)
	Non-operating temperature: -40°C to 70°C
	Operating relative humidity: 20% to 85%RH
	Non-operating relative humidity: 10% to 95%RH
TPM	TPM 2.0
OCP Compliance	OCP Compliant

Contact Us

www.QCT.io

AMD