

NVIDIA Networking for HPE

NVIDIA NetQ 10GB 5-year 9x5 Support E-LTU (S6C49AAE)

What's new

- NVIDIA Spectrum™-X Ethernet solution including next generation SN5000, SN5610 and SN2201 from NVIDIA
- Reverse airflow (connector to power) InfiniBand (IB) Quantum-2 switch
- SN5610: Improved Operational temperature 0°C to 40°C
- SN5610: 5 fans, N+1 redundant, 60 mm x 60 mm, front access 2 x SFP28 [1 G/10 G/25 GbE]
- SN5610 system's compute: AMD EPYC 3251, 8-cores, secured boot

Overview

Do your HPC and AI applications need ever-increasing networking performance to address problems with massive datasets, and complex and highly parallelized algorithms in an extreme-scale system? NVIDIA Networking for HPE includes NVIDIA Spectrum™-X SN5610, NVIDIA Spectrum-X SN2201, NVIDIA Quantum-2-based QM9700 switches. The SN5610 is compatible with standard Ethernet fabric and provides accelerated ethernet to your data center without compromising between performance and feature set. NVIDIA Networking for HPE features configurable 800 GbE ports in a dense 2U form factor and can support up to 128 ports of 400 GbE with bidirectional switching throughput of 51.2 Tb/s to easily address your data center networking requirements. The NVIDIA Spectrum SN2000 series switches are the 2nd generation of NVIDIA® switches, purpose-built for leaf/spine/super-spine datacenter applications. NVIDIA Quantum-2 extends In-Network Computing acceleration technology with preconfigured, programmable engines.

Features

SN5610: Impressive Computing and Networking Performance

With a variety of configurations available, NVIDIA Networking for HPE includes NVIDIA Spectrum™-X SN5610 switch that provides an aggregated bidirectional throughput of 51.2 Tb/s with port speeds spanning from 10 GbE to 800 GbE.

Configured for adaptability, it supports both standard leaf/spine designs with top-of-rack switches and end-of-row topologies.

Streamlined and Data-Driven

NVIDIA Networking for HPE includes NVIDIA Spectrum-X SN5610 switch that provides high performance, consistent low latency, and support for advanced data center networking features, making it ideal for cloud networks and end-to-end data center fabrics.

It offers dynamic, flexible shared buffers and predictable performance to efficiently allocate resources and quickly respond to shifting application demand.

SN2201: Out-of-band (OOB) management switch, or as a top of rack (ToR) switch

The switch connects up to 48 x 1 G BASE-T host ports with nonblocking 100 GbE spine uplinks.

It features highly advanced hardware and software, along with ASIC-level telemetry and a 16 MB fully shared buffer.

SN2201 delivers unique and innovative features to 1 G switching with C2P airflow and in-band Network Telemetry (INT)-ready hardware for streaming telemetry.

Quantum-2 QM9700: 64 ports, each providing NDR (400 Gbps) performance

51.2 Tb/s non-blocking aggregate bandwidth

Improved performance by removing fabric congestion.

Backward compatibility to NVIDIA HDR IB technology for ease of migration.

Technical specifications	NVIDIA NetQ 10GB 5-year 9x5 Support E-LTU
Product Number	S6C49AAE
Protocol supported	Ethernet
Connector type	OSFP ports passive or active copper or optical module with fiber cables
Technology	NVIDIA Spectrum™-X
Server type supported	HPE ProLiant XL/DL and HPE Cray servers using Ethernet technology see QuickSpecs for more details: https://www.hpe.com/psnow/doc/a00038966enw
Supported cables	Supports passive copper or active copper or fiber cable with optical module
Platform supported	HPE Racks HPE ProLiant XL servers HPE ProLiant DL servers HPE Cray servers
Port configurations	64 ports of 800 Gbps, 128 ports of 400 Gbps
Warranty	Switches carry a 3-year warranty, on-site, next business day response cables carry a 1-year warranty, parts exchange.

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- Accelerate AI, from pilot to production

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[For additional technical information, available models and options, please reference the QuickSpecs](#)

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