NVIDIA Networking for HPE

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 buggers 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 Networking for HPE
Warranty	Switches carry a 3-year warranty, on-site, next business day response cables carry a 1-year warranty, parts exchange.
Port configurations	64 ports of 800 Gbps, 128 ports of 400 Gbps
Technology	NVIDIA Spectrum™-X
Connector type	OSFP ports passive or active copper or optical module with fiber cables
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
Platform supported	HPE Racks HPE ProLiant XL servers HPE ProLiant DL servers HPE Cray servers
Supported cables	Supports passive copper or active copper or fiber cable with optical module
Protocol supported	Ethernet

SKU comparison

	NVIDIA 48-port 1GbE RJ45 Connector to Power Airflow Switch for HPE (P81269-B21)	NVIDIA InfiniBand NDR 64-port OSFP Managed Connector to Power Airflow Switch (P81263-B21)	NVIDIA InfiniBand NDR 64-port OSFP Managed Power to Connector Airflow Switch (P45692-B21)	NVIDIA NetQ 10GB 1-year 24x7 Support E-LTU (S6C50AAE)	NVIDIA NetQ 10GB 1-year 9x5 Support E-LTU (S6C46AAE)
Warranty	Switches carry a 3-year warranty, on-site, next business day response; cables carry a 1-year warranty, parts exchange.				
Port configurations	64 ports of 800 Gbps, 128 ports of 400 Gbps				
Technology	NVIDIA Spectrum™-X				
Connector type	OSFP ports; passive or active copper or optical module with fiber cables				
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				
Protocol supported	Ethernet				

	NVIDIA NetQ 10GB 3-year 24x7 Support E-LTU (S6C51AAE)	NVIDIA NetQ 10GB 3-year 9x5 Support E-LTU (S6C47AAE)	NVIDIA NetQ 10GB 4-year 24x7 Support E-LTU (S6C52AAE)	NVIDIA NetQ 10GB 4-year 9x5 Support E-LTU (S6C48AAE)	NVIDIA NetQ 10GB 5-year 24x7 Support E-LTU (S6C53AAE)
Warranty	Switches carry a 3-year warranty, on-site, next business day response; cables carry a 1-year warranty, parts exchange.				
Port configurations	64 ports of 800 Gbps, 128 ports of 400 Gbps				
Technology	NVIDIA Spectrum™-X				
Connector type	OSFP ports; passive or active copper or optical module with fiber cables				
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				
Protocol supported	Ethernet				

	NVIDIA NetQ 10GB 5-year 9x5 Support E-LTU (S6C49AAE)	NVIDIA NetQ 1GB 1-year 24x7 Support E-LTU (S6C42AAE)	NVIDIA NetQ 1GB 1-year 9x5 Support E-LTU (S6C38AAE)	NVIDIA NetQ 1GB 3-year 24x7 Support E-LTU (S6C43AAE)	NVIDIA NetQ 1GB 3-year 9x5 Support E-LTU (S6C39AAE)
Warranty	Switches carry a 3-year warranty, on-site, next business day response; cables carry a 1-year warranty, parts exchange.				
Port configurations	64 ports of 800 Gbps, 128 ports of 400 Gbps				
Technology	NVIDIA Spectrum™-X				
Connector type	OSFP ports; passive or active copper or optical module with fiber cables				
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				
Protocol supported	Ethernet				

	NVIDIA NetQ 1GB 4-year 24x7 Support E-LTU (S6C44AAE)	NVIDIA NetQ 1GB 4-year 9x5 Support E-LTU (S6C40AAE)	NVIDIA NetQ 1GB 5-year 24x7 Support E-LTU (S6C45AAE)	NVIDIA NetQ 1GB 5-year 9x5 Support E-LTU (S6C41AAE)	NVIDIA Spectrum SN5610 64-port 800GbE OSFP 4x AC PSU Connector to Power Airflow Switch for HPE (P85922-B21)
Management features					4 x AC, 2kW; 5 fans. N+1 redundant; 60 mm x 60 mm; 2 x SFP28 [1 G/10 G/25 GbE]; system's compute: AMD EPYC 3251, 8-Cores, Secured boot
Warranty	Switches carry a 3-year warranty, on-site, next business day response; cables carry a 1-year warranty, parts exchange.				
Data rate					800 GbE; 400 GbE
Port configurations	64 ports of 800 Gbps, 128 ports of 400 Gbps				
Number of ports					64
Power					4 x AC
Technology	NVIDIA Spectrum™-X				
Connector type	OSFP ports; passive or active copper or optical module with fiber cables				
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				
Protocol supported	Ethernet				

HPE Services

No matter where you are in your transformation journey, you can count on HPE Services to deliver the expertise you need when, where and how you need it. From strategy and planning to deployment, ongoing operations and beyond, our experts can help you realize your digital ambitions.

Advisory & Professional services

Experts can help you map out your path to hybrid cloud and optimize your operations.

Managed services

HPE runs your IT operations, giving you unified control, so can focus on innovation.

Support services

Optimize your entire IT environment and drive innovation. Manage day-to-day IT operational tasks while freeing up valuable time and resources.

— **HPE Complete Care Service:** a modular service designed to help optimize your entire IT environment and achieve agreed upon IT outcomes and business goals. All delivered by an assigned team of HPE experts.

— **HPE Tech Care Service:** the operational service experience for HPE products. The service provides access to product specific experts, an AI driven digital experience, and general technical guidance to help reduce risk and search for ways to do things better.

— **HPE Multivendor Services:** Single point of accountability for managing on-site hardware and software support for multivendor products. HPE experts help manage your IT across technologies and platforms for HPE and non-HPE technologies, acting as the single point of contact for your IT operational needs.

Lifecycle Services

Address your specific IT deployment project needs with tailored project management and deployment services.

HPE Education Services

Training and certification designed for IT and business professionals across all industries. Create learning paths to expand proficiency in a specific subject. Schedule training in a way that works best for your business with flexible continuous learning options

Defective Media Retention is optional and allows you to retain Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

GreenLake

GreenLake is the cloud to run and manage your entire hybrid landscape—private, public, and edge. It helps you to:

— Streamline IT Operations across compute, storage, and networking without the chaos

— Unify and secure data, as you move faster

— Accelerate AI, from pilot to production

The result: greater operational efficiency, lower TCO, and faster AI delivery—all from one unified, intelligent platform built for today's hybrid enterprise.

For additional technical information, available models and options, please reference the QuickSpecs

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Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product quick-specs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

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