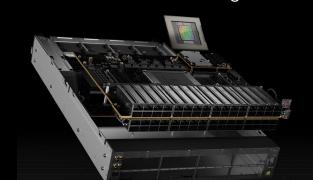


NVIDIA Spectrum SN5600 Switch

Bringing accelerated Ethernet to every data center for Al and cloud.



D¢LLTechnologies

Accelerating Data Center Fabrics

The NVIDIA Spectrum™ SN5600 Ethernet switch is the fifth generation of NVIDIA Ethernet switches, purpose-built to accelerate data center fabrics. With port speeds spanning from 10 to 800 gigabits per second (Gb/s), the SN5600 switch delivers accelerated Ethernet to every data center without compromising performance or feature set.

The SN5600 switch is ideal for enabling cloud-scale infrastructures for data centers of any size. SN5600 provides high performance, consistent low latency, and support for advanced data center networking features, making them ideal for cloud networks and end-to-end data center fabrics.

Powered by the NVIDIA Spectrum-4 application-specific integrated circuit (ASIC), the SN5600 features dynamic, flexible shared buffers and predictable performance. SN5600 switch is built to accelerate clouds and power NVIDIA platforms, including the NVIDIA Spectrum-X networking platform, NVIDIA EGX™, NVIDIA DGX™, NVIDIA HGX™, and NVIDIA OVX™, and AI software tools such as NVIDIA AI Enterprise and NVIDIA LaunchPad.

As part of the Spectrum platform, SN5600 is pretested and prevalidated with NVIDIA's full portfolio of Ethernet networking technology, including NVIDIA® BlueField® SuperNICs and data processing units (DPUs), ConnectX® smart network interface cards (SmartNICs), and LinkX® interconnects. While each element is fully compatible with standard Ethernet fabrics, the end-to-end switch-to-host solution is critical to powering accelerated workloads, delivering the high performance and innovative features needed to supercharge AI and cloud-native applications at scale.

SN5600 switch is also a key component of the NVIDIA Spectrum-X networking platform. This platform integrates Spectrum-4 Ethernet switches with BlueField-3 SuperNICs, standing out as the world's first Ethernet fabric built specifically for Al. This unique design accelerates generative Al network performance, boasting a 1.6X improvement over traditional Ethernet fabrics. Additionally, Spectrum-X ensures consistent and predictable outcomes for thousands of simultaneous Al jobs at every scale by maximizing resource utilization and performance isolation. It not only enables advanced cloud multi-tenancy but also offers robust zero-trust security. For cloud service providers, this translates into faster Al solution development, quicker deployment, and accelerated time to market, ultimately enhancing their return on investment.

Key Features

Performance

- > Up to 800Gb/s per port for 51.2Tb/s aggregate switch bandwidth
- > Fully shared packet buffer provides a fair, predictable, and high-bandwidth data path
- Consistent and low cut-through latency
- Accelerated remote directmemory access (RDMA) over converged Ethernet (RoCE) with extensions for Al cloud servers built on Ethernet
- > Best-in-class Virtual Extensible LAN (VXLAN) scale
- > 512,000 forwarding entries flexibly shared across access control list (ACL), longest prefix match (LPM) routes, host routes, media access control list (MAC), equal-cost multi-path (ECMP), and tunnel applications

Flexible, High-Performance Configuration

With a bidirectional switching capacity of 51.2 terabits per second (Tb/s), SN5600 switch is available in a range of configurations. Each delivers high performance with feature-rich layer-2 and layer-3 forwarding, ideally suited for both leaf and spine and suitable for replacing modular chassis switches. SN5600 switch provides full wire-speed performance with ultra-low cut-through latency, leveraging the fully shared 160 megabyte (MB) packet buffers for fair and predictable performance. By combining the low latency of the Spectrum-4 ASIC with the large switch radix of SN5600, thousands of hosts can be connected in a two-tier network architecture while maintaining minimal port-to-port latencies. Adding a wide range of innovations in the areas of programmability, telemetry, and tunneling, the NVIDIA SN5600 can address the complex networking requirements of today's data centers. With a range of system form factors and a rich software ecosystem, NVIDIA SN5600 allows you to pick and choose the right components for your data center.

SN5600

The SN5600 smart-leaf, spine, and super-spine switch offers 64 ports of 800GbE in a dense 2U form factor. The SN5600 is ideal for NVIDIA Spectrum-X deployments and enables both standard leaf/spine designs with top-of-rack (ToR) switches as well as end-of-row (EoR) topologies. The SN5600 offers diverse connectivity in combinations of 1 to 800GbE and boasts an industry-leading total throughput of 51.2Tb/s.

High Availability

The NVIDIA Spectrum SN5600 is designed with the following features for high availability:

- > 1+1 hot-swappable power supplies and N+1 hot-swappable fans
- > Color-coded power supply units (PSUs) and fans
- > Ethernet VPN (EVPN) multi-homing
- > Multi-chassis link aggregation group (MLAG) for active/active L2 multipathing
- > Hardware-assisted in-service software upgrades (ISSU)
- > 256-way equal-cost multi-path (ECMP) routing for load balancing and redundancy

Platform Security

SN5600 switch offers a complete security suite at all switch layers. Hardware, firmware, and software are authenticated by a built-in root of trust, from the basic input and output system (BIOS) to the network operating system (NOS). Any attempt to run an altered component or image that wasn't originally signed by NVIDIA is automatically blocked, ensuring the safest network installation within data centers.

NVIDIA Cumulus Linux

NVIDIA Cumulus° Linux is a powerful open network operating system that enables advanced automation, customization, and scalability using web-scale principles hardened in the world's largest data centers. Cumulus Linux was built for building data center networks ideally suited to diverse business needs. And it's the only open NOS that enables the building of affordable and efficient network operations like the world's largest data center operators, unlocking web-scale networking for businesses of all sizes.

Agility and Security

- Comprehensive layer 2 and layer 3
- Advanced network virtualization with high-performance, singlepass VXLAN routing
- Cloud-scale network address translation (NAT)
- > Programmable pipeline that can programmatically parse, process, and edit packets
- > Secured switch offerings via hardware root of trust

Visibility

- NVIDIA What Just Happened® (WJH) telemetry dramatically reduces mean time to issue resolution
- Hardware-accelerated histograms powered by NetQ track and summarize queue depths at submicrosecond granularity
- > Inband network telemetry (INT)
- > Streaming telemetry
- > 512,000 on-chip flow counters



SN5600 switch image

SONIC

Designed for hyperscalers, service providers, and enterprises, SONiC is a fully open-sourced, hardware-agnostic NOS, perfect for preventing vendor lock-in and ideal for next-generation data centers. SONiC's containerized design makes it flexible and customizable, allowing customers to combine and manage SONiC and non-SONiC switches within the same networking fabric. NVIDIA's pure SONiC offering removes distribution limitations and enables enterprises to take full advantage of the benefits of open networking while adding the NVIDIA expertise and support that best guarantee success. NVIDIA is proud to guide the direction of SONiC as a member of the SONiC Governing Board and Technical Steering Committee. Pure SONiC is fully supported on SN5600.

Linux Switch

With Linux Switch, users can natively install and use any standard Linux distribution as the switch operating system. Linux Switch is based on a Linux kernel driver model for Ethernet switches (switchdev).

Platform Software Options

NVIDIA Air

The NVIDIA Air infrastructure simulation platform creates digital twins of SN5600 switch (as well as the rest of the Spectrum portfolio). The digital twin includes logical instances of every switch and cable, so it can be used to validate security policy compliance, automation processes, monitoring tools, interoperability, and upgrade procedures. The digital twin is key to transforming network operations models, allowing IT architects and infrastructure specialists to deploy and update networks up to 95 percent faster through continuous integration and continuous delivery (CI/CD) integration.

NVIDIA NetQ

NVIDIA NetQ™ is a highly scalable network operations toolset that provides visibility, troubleshooting, and validation of networks in real time. NetQ delivers actionable insights and operational intelligence about the health of data center networks—from the container or host all the way to the switch and port—enabling a NetDevOps approach. NVIDIA NetQ is the leading network operations tool that utilizes telemetry for deep troubleshooting, visibility, and automated workflows from a single interface, reducing mean time to innocence (MTTI) and network downtimes.

NVIDIA Spectrum-4: An ASIC for Accelerated Data Centers

NVIDIA's Spectrum-4 is the fifth-generation Ethernet switch ASIC, delivering a solid balance of performance, virtualization, telemetry, and scalability capabilities.

Groundbreaking Performance and Features

Packet buffer architecture has a major impact on overall switch performance. The Spectrum-4 ASIC features a fully shared and monolithic packet buffer across all ports, supporting cut-through traffic from all ports without compromising scale or features. With its fast packet buffer, Spectrum-4 provides a high-performance, fair, and bottleneck-free data path for mission-critical applications. In addition, Spectrum-4 provides the most advanced and innovative feature set yet. This includes unique features like RoCE extensions for NVIDIA Spectrum-X and end-to-end nanosecond-level timing precision from switch to host.

Centralized Visibility

Spectrum-4 provides deep and contextual network visibility, which allows network operators to proactively manage issues and reduce mean time to recovery (MTTR) and innocence (MTTI). Available through the switch SDK, NVIDIA User Experience (NVUE), or SONiC command-line interface (CLI), What Just Happened leverages the underlying silicon and software capability to provide granular and event-triggered information about infrastructure issues. In addition, Spectrum-4's rich telemetry information is readily available via open APIs and tools such as gNMI that can be integrated with NetQ, as well as third-party software tools and workflow engines.

Unprecedented Agility

For modern data center infrastructure to be software-defined and agile, both its compute and network building blocks need to be agile. Spectrum-4 includes a unique, feature-rich packet processing pipeline that offers data center network virtualization without compromising on performance or scale. Spectrum-4 has a programmable pipeline and a deep packet parser and editor that can process payloads up to the first 512 bytes. Spectrum-4 supports single-pass VXLAN routing and bridging. In addition, Spectrum-4 supports advanced virtualization features such as routing and NAT.

Massive Scale

Spectrum-4 uses intelligent algorithms and efficient resource sharing and supports unprecedented scale for forwarding tables, counters, and policies. This fine-grained resource allocation enables Spectrum-4 to fit all specific needs, allowing up to 512,000 entries to be dynamically shared across media access control (MAC), Address Resolution Protocol (ARP), Internet Protocol version 4 (IPv4) routes, ACLs, ECMP, and VXLAN tunnels.

Technical Specifications

Connectors 64 OSFP 800GBE (1 SFP82 SEGBE) Max. 800GBE ports 64 Max. 400GBE ports 256 Max. 200GBE ports 256 Max. 100GBE ports 256 Max. 500GE ports 256 Max. 40GBE ports 128 Max. 40GBE ports 256+1 Max. 10GBE ports 256+1 Max. 10GBE ports 1 Max. 10GBE ports 33.3Bps Vire- speed switching (Bpps) 33.3Bpps Lanes per port x max. speed per lane 8x 100G PAM4 CPU Hexa-core x86 SSD memory 360G SSD memory 160GB Packet buffer 160MB 100/1000M/s management ports RJ45 Serial ports RJ45 USB ports USB Type 3 Hot-swap power supplies 2 (1+1 redundant) Hot-swap power supplies 4 (N+1 redundant) Airflow Reverse Power supplies 7 (Fequency: 50-60Hz (pm) range: 20R-264Vac Power supplies - 35°C Size (H × W x D)	Switch Model	SN5600
Max. 800GbE ports 64 Max. 400GbE ports 256 Max. 100GbE ports 256 Max. 50GbE ports 256 Max. 40GbE ports 128 Max. 40GbE ports 256+1 Max. 10GbE ports 256+1 Max. 10GbE ports 1 Switching capacity (Tb/s) 51.2Tb/s Wire-speed switching (Bpps) 33.3Bpps Lanes per port x max. speed per lane 8x 100G PAM4 CPU Hexa-core x86 System memory 32G SSD memory 160GB Packet buffer 160MB 100/1000Mb/s management ports RJ45 Serial ports RJ45 USB ports USB Type 3 Hot-swap power supplies 2 (1+1 redundant) Hot-swap power supplies 4 (N+1 redundant) Airflow Reverse Power supplies 7 requency: 50-60Hz Input range: 208-264Vac Operating conditions 0.35°C Size (H x W x D) 3.39" (H) x 17.2" (W) x 28.3" (D)	Connectors	64 OSFP 800GbE
Max. 400GbE ports 256 Max. 100GbE ports 256 Max. 50GbE ports 256 Max. 40GbE ports 256 Max. 40GbE ports 128 Max. 25 ports 256+1 Max. 10GbE ports 1 Switching capacity (Tb/s) 51.2Tb/s Wire-speed switching (Bpps) 33.3Bpps Lanes per port x max. speed per lane 8x 100G PAM4 CPU Hexa-core x86 System memory 32G SSD memory 160GB Packet buffer 160MB 100/1000Mb/s management ports RJ45 Serial ports USB Type 3 USB ports USB Type 3 Hot-swap power supplies 2 (1+1 redundant) Hot-swap power supplies 4 (N+1 redundant) Airflow Reverse Power supplies 7 requency: 50-60Hz Input range: 208-264Vac Operating conditions 0-35°C Size (H x W x D) 3.39" (H) x 17.2" (W) x 28.3" (D)		+ 1 SFP28 25GbE
Max. 2006bE ports 256 Max. 1006bE ports 256 Max. 50GbE ports 256 Max. 40GbE ports 128 Max. 25 ports 256+1 Max. 10GbE ports 256+1 Max. 16bE ports 1 Switching capacity (Tb/s) 51.2Tb/s Wire-speed switching (Bpps) 33.38pps Lanes per port x max. speed per lane 8x 100G PAM4 CPU Hexa-core x86 System memory 32G SSD memory 160GB Packet buffer 160MB 100/1000Mb/s management ports RJ45 Serial ports USB Type 3 Hot-swap power supplies 2 (1+1 redundant) Hot-swap power supplies 4 (N+1 redundant) Airflow Reverse Power supplies Frequency: 50-60Hz Input range: 208-264Vac Operating conditions 0-35°C Size (H x W x D) 3.39" (H) x 17.2" (W) x 28.3" (D)	Max. 800GbE ports	64
Max. 100GbE ports 256 Max. 40GbE ports 128 Max. 25 ports 256+1 Max. 10GbE ports 256+1 Max. 10GbE ports 1 Switching capacity (Tb/s) 51.2Tb/s Wire-speed switching (Bpps) 33.3Bpps Lanes per port x max. speed per lane 8x 100G PAM4 CPU Hexa-core x86 System memory 32G SSD memory 160GB Packet buffer 160MB 100/1000Mb/s management ports RJ45 Serial ports USB Type 3 Hot-swap power supplies 2 (1+1 redundant) Hot-swap power supplies 4 (N+1 redundant) Hot-swap power supplies Frequency: 50-60Hz Input range: 208-264Vac Operating conditions 0-35°C Size (H x W x D) 3.39" (H) x 17.2" (W) x 28.3" (D)	Max. 400GbE ports	128
Max. 50GbE ports 256 Max. 40GbE ports 128 Max. 10GbE ports 256+1 Max. 10GbE ports 1 Max. 10BE ports 1 Switching capacity (Tb/s) 51.2Tb/s Wire-speed switching (Bpps) 33.3Bpps Lanes per port x max. speed per lane 8x 100G PAM4 CPU Hexa-core x86 System memory 32G SSD memory 160GB Packet buffer 160MB 100/1000Mb/s management ports RJ45 Serial ports USB Type 3 Hot-swap power supplies 2 (1+1 redundant) Hot-swap power supplies 4 (N+1 redundant) Airflow Reverse Power supplies Frequency: 50-60Hz Input range: 208-264Vac Operating conditions 0-35°C Size (H x W x D) 3.39" (H) x 17.2" (W) x 28.3" (D)	Max. 200GbE ports	256
Max. 40GbE ports 128 Max. 25 ports 256+1 Max. 10GbE ports 256+1 Max. 1GBE ports 1 Switching capacity (Tb/s) 51.2Tb/s Wire-speed switching (Bpps) 33.3Bpps Lanes per port x max. speed per lane 8x 100G PAM4 CPU Hexa-core x86 System memory 32G SSD memory 160GB Packet buffer 160MB 100/1000Mb/s management ports RJ45 Serial ports USB Type 3 Hot-swap power supplies 2 (1+1 redundant) Hot-swap power supplies 4 (N+1 redundant) Hot-swappable fans 4 (N+1 redundant) Airflow Reverse Power supplies Frequency: 50-60Hz Input range: 208-264Vac Operating conditions 0-35°C Size (H x W x D) 3.39" (H) x 17.2" (W) x 28.3" (D)	Max. 100GbE ports	256
Max. 25 ports 256+1 Max. 1GBE ports 1 Switching capacity (Tb/s) 51.2Tb/s Wire-speed switching (Bpps) 33.3Bpps Lanes per port x max. speed per lane 8x 100G PAM4 CPU Hexa-core x86 System memory 32G SSD memory 160GB Packet buffer 160MB 100/1000Mb/s management ports RJ45 Serial ports WSB Type 3 Hot-swap power supplies 2 (1+1 redundant) Hot-swappable fans 4 (N+1 redundant) Airflow Reverse Power supplies Frequency: 50-60Hz Input range: 208-264Vac Operating conditions 0-35°C Size (H x W x D) 3.39" (H) x 17.2" (W) x 28.3" (D)	Max. 50GbE ports	256
Max. 10GbE ports 256+1 Max. 1GbE ports 1 Switching capacity (Tb/s) 51.2Tb/s Wire-speed switching (Bpps) 33.3Bpps Lanes per port x max. speed per lane 8x 100G PAM4 CPU Hexa-core x86 System memory 32G SSD memory 160GB Packet buffer 160MB 100/1000Mb/s management ports RJ45 Serial ports USB Type 3 Hot-swap power supplies 2 (1+1 redundant) Hot-swap power supplies 4 (N+1 redundant) Airflow Reverse Power supplies Frequency: 50-60Hz Input range: 208-264Vac Operating conditions 0-35°C Size (H x W x D) 3.39" (H) x 17.2" (W) x 28.3" (D)	Max. 40GbE ports	128
Max. 1GbE ports 1 Switching capacity (Tb/s) 51.2Tb/s Wire-speed switching (Bpps) 33.3Bpps Lanes per port x max. speed per lane 8x 100G PAM4 CPU Hexa-core x86 System memory 32G SSD memory 160GB Packet buffer 160MB 100/1000Mb/s management ports RJ45 Serial ports RJ45 USB ports USB Type 3 Hot-swap power supplies 2 (1+1 redundant) Hot-swappable fans 4 (N+1 redundant) Airflow Reverse Power supplies Frequency: 50-60Hz Input range: 208-264Vac Operating conditions 0-35°C Size (H x W x D) 3.39" (H) x 17.2" (W) x 28.3" (D)	Max. 25 ports	256+1
Switching capacity (Tb/s) 51.2Tb/s Wire-speed switching (Bpps) 33.3Bpps Lanes per port x max. speed per lane 8x 100G PAM4 CPU Hexa-core x86 System memory 32G SSD memory 160GB Packet buffer 160MB 100/1000Mb/s management ports RJ45 Serial ports WSB Type 3 Hot-swap power supplies 2 (1+1 redundant) Hot-swappable fans 4 (N+1 redundant) Airflow Reverse Power supplies Frequency: 50-60Hz Input range: 208-264Vac Operating conditions 0-35°C Size (H x W x D) 3.39" (H) x 17.2" (W) x 28.3" (D)	Max. 10GbE ports	256+1
Wire-speed switching (Bpps) 33.3Bpps Lanes per port x max. speed per lane 8x 100G PAM4 CPU Hexa-core x86 System memory 32G SSD memory 160GB Packet buffer 160MB 100/1000Mb/s management ports RJ45 Serial ports RJ45 USB ports USB Type 3 Hot-swap power supplies 2 (1+1 redundant) Hot-swappable fans 4 (N+1 redundant) Airflow Reverse Power supplies Frequency: 50-60Hz Input range: 208-264Vac Operating conditions 0-35°C Size (H x W x D) 3.39" (H) x 17.2" (W) x 28.3" (D)	Max. 1GbE ports	1
Lanes per port x max. speed per lane 8x 100G PAM4 CPU Hexa-core x86 System memory 32G SSD memory 160GB Packet buffer 160MB 100/1000Mb/s management ports RJ45 Serial ports RJ45 USB ports USB Type 3 Hot-swap power supplies 2 (1+1 redundant) Hot-swappable fans 4 (N+1 redundant) Airflow Reverse Power supplies Frequency: 50-60Hz Input range: 208-264Vac Operating conditions 0-35°C Size (H x W x D) 3.39" (H) x 17.2" (W) x 28.3" (D)	Switching capacity (Tb/s)	51.2Tb/s
CPU Hexa-core x86 System memory 32G SSD memory 160GB Packet buffer 160MB 100/1000Mb/s management ports RJ45 Serial ports RJ45 USB ports USB Type 3 Hot-swap power supplies 2 (1+1 redundant) Hot-swappable fans 4 (N+1 redundant) Airflow Reverse Power supplies Frequency: 50-60Hz Input range: 208-264Vac Operating conditions 0-35°C Size (H x W x D) 3.39" (H) x 17.2" (W) x 28.3" (D)	Wire-speed switching (Bpps)	33.3Bpps
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SSD memory Packet buffer 160MB 100/1000Mb/s management ports RJ45 Serial ports USB Type 3 Hot-swap power supplies 4 (N+1 redundant) Airflow Reverse Power supplies Frequency: 50-60Hz Input range: 208-264Vac Operating conditions 0-35°C Size (H x W x D) 160GB RUSB RJ45 RJ45 RJ45 (N+1 redundant) 4 (N+1 redundant) Frequency: 50-60Hz Input range: 208-264Vac	CPU	Hexa-core x86
Packet buffer 160MB 100/1000Mb/s management ports RJ45 Serial ports RJ45 USB Type 3 Hot-swap power supplies 2 (1+1 redundant) Hot-swappable fans 4 (N+1 redundant) Airflow Reverse Power supplies Frequency: 50-60Hz Input range: 208-264Vac Operating conditions 0-35°C Size (H x W x D) 3.39" (H) x 17.2" (W) x 28.3" (D)	System memory	32G
RJ45 Serial ports RJ45 USB ports USB Type 3 Hot-swap power supplies 2 (1+1 redundant) Hot-swappable fans 4 (N+1 redundant) Airflow Reverse Power supplies Frequency: 50-60Hz Input range: 208-264Vac Operating conditions 0-35°C Size (H x W x D) 3.39" (H) x 17.2" (W) x 28.3" (D)	SSD memory	160GB
Serial ports USB ports USB Type 3 Hot-swap power supplies Airflow Power supplies Power supplies Frequency: 50-60Hz Input range: 208-264Vac Operating conditions O-35°C Size (H x W x D) RJ45 RJ45 RJ45 RJ45 RJ45 RSH Type 3 A (N+1 redundant) Reverse Frequency: 50-60Hz Input range: 208-264Vac O-35°C Size (H x W x D) 3.39" (H) x 17.2" (W) x 28.3" (D)	Packet buffer	160MB
USB portsUSB Type 3Hot-swap power supplies2 (1+1 redundant)Hot-swappable fans4 (N+1 redundant)AirflowReversePower suppliesFrequency: 50-60Hz Input range: 208-264VacOperating conditions0-35°CSize (H x W x D)3.39" (H) x 17.2" (W) x 28.3" (D)	100/1000Mb/s management ports	RJ45
Hot-swap power supplies 2 (1+1 redundant) Hot-swappable fans 4 (N+1 redundant) Airflow Reverse Power supplies Frequency: 50-60Hz Input range: 208-264Vac Operating conditions 0-35°C Size (H x W x D) 3.39" (H) x 17.2" (W) x 28.3" (D)	Serial ports	RJ45
Hot-swappable fans 4 (N+1 redundant) Airflow Reverse Power supplies Frequency: 50-60Hz Input range: 208-264Vac Operating conditions 0-35°C Size (H x W x D) 3.39" (H) x 17.2" (W) x 28.3" (D)	USB ports	USB Type 3
AirflowReversePower suppliesFrequency: 50-60Hz Input range: 208-264VacOperating conditions0-35°CSize (H x W x D)3.39" (H) x 17.2" (W) x 28.3" (D)	Hot-swap power supplies	2 (1+1 redundant)
Power supplies Frequency: 50–60Hz Input range: 208–264Vac Operating conditions 0–35°C Size (H x W x D) 3.39" (H) x 17.2" (W) x 28.3" (D)	Hot-swappable fans	4 (N+1 redundant)
Operating conditions 0-35°C Size (H x W x D) 3.39" (H) x 17.2" (W) x 28.3" (D)	Airflow	Reverse
Size (H x W x D) 3.39" (H) x 17.2" (W) x 28.3" (D)	Power supplies	
	Operating conditions	0-35°C
	Size (H x W x D)	

Compliance

Standards Compliance	
Safety	CB, CE, cTUVus, CU
EMC	CE, ICES, FCC, RCM, VCCI
Non-operating conditions	-40-70°C
Relative humidity	5–85%
Operating altitude	0–3,050m
RoHS	RoHS compliant

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