DATA SHEET

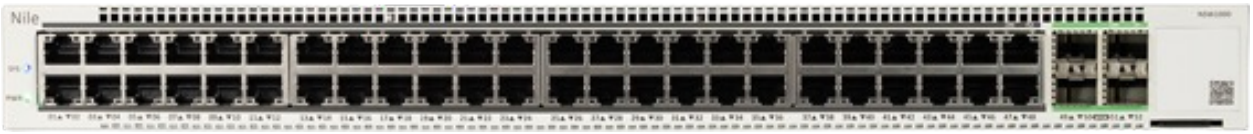
Nile NSW 1000 48-port Stackable Multi-Gigabit Access Switch

OVERVIEW

The Nile NSW 1000 switch is the industry's first Multi-Gigabit Access Switch, supporting 100M to 5Gbps on all 48 ports, with built-in MACSec on all uplink and access ports. The switch is highly scalable and provides data stacking, supporting a Ring bandwidth of 200Gbps.

As a key component of the Nile Service Block, the NSW 1000 is an integral part of the Nile Access Service. It offers the industry's first performance guarantee for capacity and availability for campus and branch local area network (LAN) connectivity.

The NSW 1000 provides access layer connectivity to Wi-Fi access points (APs) and wired endpoints like laptops, desktops, IP phones, printers, video conferencing systems and other IoT devices like HVAC controls, security cameras, point-of-sales devices, and thermostats. PoE is available on all 48 access ports, supporting power delivery up to 60W.



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NSW 1000 Differentiators

- Ports secured with zero trust, requiring authentication and authorization before IP address assignment to connected devices
- Elimination of Layer 2 VLANs for enhanced security
- No lateral movement prevents malware intrusions with zero trust isolation of each connected device at Layer 3 (L3)
- Mutual authentication between switches ensures strict confirmation and authenticity, protecting against MITM attacks
- No local/console port to prevent unauthorized access
- Dynamic device fingerprinting and SSO, 802.1X, MAB authentication flows supported on each wired port

CAPABILITIES

Connectivity and POE

- 48x multi-Gigabit (100M/1000M/2.5G/5G) and 4x 10G/25G built-in uplinks, 2x 100GE Ring ports.
- Copper interfaces for downlink/client ports
- Copper and Fiber support for Uplink ports
- Support for Energy Efficient Ethernet (EEE)
- IEEE 802.3bt Power over Ethernet (POE) provides up to 60W per port Power Supplies, Fans, Mounting, LEDs
- Dual Redundant Load sharing power supplies, Hot Swap support, Easy access for Field replacement
- Power Supply LEDs: Output Fail – RED, Input OK - GREEN
- Chassis/System Status LED: Red/Green/Blue
- Hot Swappable Fans, Easy access for Field replacement
- Front to Back Airflow
- Rack Mounting: 2-post and 4-Post support - kits provided

Power Budget

- Total Power: 375W (Excluding PoE)
- Total Power: 1500W (Including PoE)

Security

- Support for IEEE 802.1AE MACSec, AES 256bit, GCM mode
- Support for 802.1X PNAC
- Support for TPM
- UEFI Secure Boot capability for CPU

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SPECIFICATIONS

I/O ports and slots	
	48 multigigabit auto-sensing 100M/1000M/2.5G/5G RJ-45 ports 4 10G/25G SFP+ ports 2 100G QSFP28 ports
Additional ports and slots	
	Bluetooth Interface
Physical Characteristics	
Dimensions	1 RU H x 17.5" W x 16" D (43.5mm x 433mm x 410mm)
Weight	33 LBS (15.05 Kg)
Environment	
Operating Temperature	0°C to 45°C
Operating Humidity	5 to 85% Relative Humidity, non-condensing
Max non-operating/storage specification	Storage temperature: -40°C to 70°C Storage Humidity: 5 to 95% RH, non-condensing
MTBF	635,998 hrs at 77°F (25℃)
Electrical	
Power Input	Low-line: 90-136VAC; High-line: 180-264VAC
Power Cable	ARG Argentina 220V AC 10A 2-meter AC Power Cord JW113A AUS Australian AC Power Cord JW114A BR Brazil AC Power Cord JW115A CHN China AC Power Cord JW116A DEN Denmark 220V AC 10A 2-meter AC Power Cord JW117A IN India AC Power Cord JW119A IL Israel 250V AC 10A 2-meter AC Power Cord JW120A IT Italian AC Power Cord JW121A JP Japanese AC Power Cord JW122A KOR Korea AC Power Cord JW123A NA North America AC Power Cord JW124A EC Continental European/Schuko AC Power Cord JW118A
Compliance	
FCC, CE, IC, CSA	EMC, Immunity, Safety, Radio directive, ROHS5
Certifications	
	Available with US Trade Agreements Act (TAA) compliance; USGv6 Host and Router Certified; Acoustic noise Measured per ISO 7779 and declared per ISO 9296; Bystander positions operating to an ambient temperature of 25°C