

## DATA SHEET

# Nile NSW 250 16-port Multi-Gigabit Access Switch

## OVERVIEW

The Nile NSW 250 is an enterprise-class Multi-Gigabit switch with 16 ports that support 100M to 5G. It also has built-in MACSec on all uplink and access ports.

As a key component of the Nile Service Block, the NSW 250 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. It provides access-layer connectivity to Wi-Fi access points (APs) and wired client devices like laptops, desktops, IP phones, printers, video conferencing systems, and other IT/OT equipment.



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## NSW 250 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

- 16x multi-Gigabit (100M/1000M/2.5G/5G) and 4x 10G/25G built-in uplinks, 2x100GE 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

- 300W External 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, 4-Post and wall mount support - kits provided

### Power Budget

- Total Power: 300W (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	
	16 multigigabit autosensing 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 11.8" W x 15.6" D (44mm x 300mm x 396mm)
Weight	12.3 LBS (5.6 kg), 19.6 LBS (8.9 Kg) Including tray and Powe supply
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
MBTF	179,097 hrs at 77°F (25°C)
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	EU RoHS5 Compliant
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;