Nile NSW 1500
28-port Multi-Gigabit Distribution / Aggregation Switch

OVERVIEW

The Nile NSW 1500 switch is an enterprise-class campus Distribution/Aggregation switch that supports multiple Access layer switches and provides L3/Routed interfaces to the WAN routing layer. This is a high-performance Ethernet switch that easily supports Multi-Gigabit ports with flexible uplink interfaces.

An enterprise-class Distribution/Aggregation switch provides an important layer of redundancy and scalability for the network, routes network traffic, and enforces network security policies.

As a key component of the Nile Service Block, the NSW 1500 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.

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NSW 1500 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

- 28x 10GE/25GE + 3x 25GE/40GE/100GE +
- 3x 40/100G QSFP ports
- Support for Energy Efficient Ethernet (EEE)

Power Supplies, Fans, Mounting, LEDs

- Dual Redundant Load-Sharing power supplies, Hot Swap support, Easy access for Field Replacement
- Front-to-back airflow
- Power Supply LEDs: Output Fail – RED, Input OK – GREEN
- Chassis/System Status LED: Red/Green/Blue
- Hot Swappable Fans, Easy access for Field Replacement
- Rack Mounting: 2-post and 4-Post support - kits provided

Power Budget

- Total Power: 300W

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	
	28 10/25GE SFP28 3 25/40/100GE SFP28 4 1/10GE SFP+ 1 10/40GE QSFP+
Additional ports and slots	
	Bluetooth Interface
Physical Characteristics	
Dimensions	1 RU H x 17" W x 16" D (43.5mm x 433mm x 410mm)
Weight	32.5 LBS (14.77 Kg)
Environment	
Operating Temperature	0°C to 45°C
Operating Humidity	5 to 85% Relative Humidity, non-condensing
Operating Altitude	0ft to 10,000ft above sea level
Max non-operating/storage specification	Storage temperature: -40°C to 70°C Storage Humidity: 5 to 95% RH, non-condensing
MTBF	336,029 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; Bystander positions operating to an ambient temperature of 25°C