

Nile Zero Trust Fabric NSW 1500 Switch



Overview

The Nile NSW 1500 is an enterprise-grade distribution switch engineered for reliable, high-performance wired connectivity across campus and large enterprise environments. It delivers consistent high-throughput switching and routing for access-layer switches and upstream connectivity, supporting scalable campus architectures with high-capacity uplinks and redundant system components.

As part of Nile's Zero Trust Fabric, the NSW 1500 runs in a secure, cloud-delivered network-as-a-service (NaaS) architecture with centrally enforced segmentation and autonomous operations for continuous assurance and optimization. QR-code activation through the Nile Nav app enables fast, error-free installation with guided workflows.

Features

High-Capacity Aggregation Switching

High-speed 10G, 25G, 40G, and 100G interfaces deliver scalable aggregation and distribution-layer performance for campus networks. Flexible uplink options support resilient designs and high-throughput east-west and north-south traffic flows.

Redundant, Resilient Design

Dual hot-swappable, load-sharing 550W power supplies and hot-swappable fans improve uptime and maintain consistent performance during component failures or replacement procedures.

Ring-Based Stacking Support

Enables resilient multi-switch topologies with uplink redundancy and simplified operations across the distribution layer.

Cloud-Delivered Operations

Switch configuration, software lifecycle, monitoring, and optimization are centrally managed through the Nile Services Cloud—removing the need for CLI, templates, or manual tuning.

Zero Trust Security

• Zero Trust Enforcement

Authentication and authorization are required before any device receives network access, ensuring secure connectivity by default.

• Secure Management

A tamper-resistant operating model ensures all control and configuration occur exclusively through the Nile cloud, eliminating local management interfaces and preventing unauthorized access.

• Secure Boot Integrity

TPM 2.0 and Secure Boot capabilities help ensure only verified software components are initialized on the platform.

• Layer-3 Isolation

Each connected endpoint is isolated at L3 to prevent lateral movement and contain compromised or malicious devices.

• Mutual authentication across switches

Authentication and authorization are required before any device receives network access, ensuring secure connectivity by default.

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)

Compliance

FCC, CE, IC, CSA	EMC, Immunity, Safety, Radio directive, ROHS5
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Electrical

Power Input	Low-line: 90-136 VAC; High-line: 180-264 VAC
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

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	336,029 hrs at 77°F (25°C)

Certifications

Available with US Trade Agreements Act (TAA) compliance;
USGv6 Host and Router Certified;
Bystander positions operating to an ambient temperature of 25°C

Warranty & Support

All Nile access points include 24x7 AI-driven cloud monitoring and lifecycle automation delivered through the Nile autonomous AI Command Center. Performance-based service options include a financially backed Performance Guarantee with service credits. Hardware replacement options include expedited RMAs aligned to the selected tier and region.

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