

Nile Zero Trust Fabric NSW 250 Switch



Overview

The Nile NSW 250 is an enterprise-grade multigigabit access switch engineered for reliable, high-performance wired connectivity across offices, classrooms, and distributed environments. It delivers consistent throughput for user devices, Wi-Fi access points, cameras, sensors, and other connected systems, with multigigabit access ports and high-power PoE designed to support higher throughput and device power requirements.

As part of Nile's Zero Trust Fabric, the NSW 250 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

Multigigabit Switching

16 multigigabit access ports (100M/1G/2.5G/5G) deliver reliable wired connectivity for access points and modern client devices, complemented by high-speed uplinks for aggregation and stacking.

Flexible PoE

All access ports support Power over Ethernet for access points, cameras, phones, sensors, and other connected devices, with support for up to 60W per port (IEEE 802.3bt Type 4). Power is provided by a 300W external power supply.

Ring-Based Stacking Support

Enables resilient multi-switch topologies with uplink redundancy and simplified operations across the access 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

Switches verify each other's identity to prevent spoofing, unauthorized insertion, or man-in-the-middle attempts.

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 Power supply

Compliance

FCC, CE, IC, CSA

EU RoHS5 Compliant

Electrical

Power Input	Low-line: 90-136 VAC; High-line: 180-264 VAC
POE Budget	150W
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	179,097 hrs at 77°F (25°C)

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

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.

Ready to Get Started?

Request a Demo