

Nile Zero Trust Fabric NSW 100 Switch



Overview

The Nile NSW 100 is an enterprise-grade Gigabit access switch engineered for reliable, high-performance wired connectivity across offices, classrooms, and distributed environments. It delivers consistent throughput for user devices, access points, cameras, sensors, and other connected systems, backed by redundant power supplies and high-density PoE options.

As part of Nile's Zero Trust Fabric, the NSW 100 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-Density Gigabit Switching

24 Gigabit access ports and 4 SFP+ & 2 SFP uplinks provide reliable wired connectivity for IT and OT devices in enterprise and campus environments.

Flexible PoE

Ports supporting 30W and 90W PoE to simplify deployments of APs, cameras, phones, IoT sensors, and building systems.

Redundant, Resilient Design

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

● Access 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; console ports exist physically but are disabled to prevent local 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

24 × 10/100/1000BASE-T RJ-45 ports
4 × 1G/10G SFP+ ports
2 × 1G SFP ports

Additional Ports and Slots

1 × USB 3.0 Type-A port (Bluetooth activation dongle support)

Physical Characteristics

Dimensions	1 RU (WxDxH): 17.32 × 13.79 × 1.73 in (440 mm × 350.3 mm × 44 mm)
Weight	14.2 LBS (6.42 kg)

Compliance

FCC, CE, IC, CSA	EU RoHS5 Compliant
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Electrical

Power Input	Low-line: 90-136 VAC; High-line: 180-264 VAC
POE Budget	1 PSU: 450W 2 PSUs: 1000W (Non-redundant mode)
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 14.2 LBS (6.42 kg)
Operating Humidity	5 to 95% 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	428,898 hrs at 77°F (25°C)

Certifications

UL/CSA 62368-1
CB (IEC/EN 62368-1)
BSMI CNS 15598-1
Acoustic noise measured and declared per ISO 7779.
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