

Nile Zero Trust Fabric

NSW 1000 Switch



Overview

The Nile NSW 1000 is an enterprise-grade multigigabit switch engineered for reliable, high-performance wired connectivity across offices, classrooms, and distributed environments. It delivers consistent high-throughput connectivity for Wi-Fi access points, user devices, cameras, sensors, and other connected systems, backed by redundant power supplies, high-density PoE, and multigigabit port speeds.

As part of Nile's Zero Trust Fabric, the NSW 1000 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

48 multigigabit access ports supporting 100M, 1G, 2.5G, and 5G speeds deliver high-performance wired connectivity for modern enterprise and campus environments. Integrated uplinks and ring ports support resilient access-layer designs.

Flexible PoE

All access ports support PoE, delivering up to 60W per port for powering high-performance access points, cameras, phones, sensors, and building systems. High PoE budgets support dense device deployments across campus and branch locations.

Redundant, Resilient Design

Dual hot-swappable, load-sharing 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 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

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

Specifications

I/O Ports and Slots	
	48 multigigabit auto-sensing 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 17" W x 16" D (43.5mm x 433mm x 410mm)
Weight	33 LBS (15.05 Kg)
Compliance	
FCC, CE, IC, CSA	EMC, Immunity, Safety, Radio directive, ROHS5

Electrical

Power Input	Low-line: 90-136 VAC; High-line: 180-264 VAC
POE Budget	1 PSU: 650W 2 PSU: 1300W (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
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	635,998 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