Highlights

Powered by the Advanced WiNG 5 Operating System

- WiNG 5 provides the advanced intelligence required to create the "fully network-aware" WLAN, allowing every piece of infrastructure in your wireless network to work together to route every transmission as efficiently as possible.

Plug-and-Play

- Fast and easy zero-touch installation plus rule-based access point adoption from all locations automates equipment discovery and deployment.

Hierarchical Management

- Manage your entire WLAN through a single graphical user interface that provides a macro and micro view — simultaneously view all your branch locations or drill down into any piece of infrastructure anywhere in your network, from access points that are adopted directly by the NX 7500 to NX 5500 and RFS 4000 branch-level controllers and their adopted and stand-alone WiNG 5 access points.

Centralized Troubleshooting and Network Assurance

- Single pane of glass for remote troubleshooting of the wired/wireless network that is distributed across multiple locations with different architectures; aggregated KPIs provide a global network health view while remote tools allow troubleshooting of individual network elements; tools include historical troubleshooting via detailed forensics.



ExtremeWireless™ WiNG NX 7500 Integrated Services Platform

Next-generation wireless services for midsize and campus environments.

Advanced Performance and One Point of Control for your Entire Wireless LAN (WLAN)

The NX 7500 brings the next generation in WLAN speed, security, reliability, and flexibility to the midsize enterprise, providing comprehensive management and control of up to 2,048 network elements through a single pane of glass. With the NX 7500, all network infrastructure is empowered with the intelligence to make the best routing decisions, so you get maximum speed and throughput — the congestion and latency associated with routing traffic through a centralized controller is eliminated.

Maximum Flexibility Delivers Superior Cost-Efficiency and Investment Protection

With the modular design of the NX 7500, you can purchase the features you need today and add what you need tomorrow. As the number of users and application bandwidth requirements increase, upgrade to 10 Gigabit (10G) Ethernet, right in your facility. The fully-programmable multi-core network processing engine makes it easy to add features that require in-line data processing, without the typical limitations of hardware ASIC-based solutions. And the powerful control processor for management is accompanied by a high-throughput cryptographic engine for extreme security.

Comprehensive Integrated Network Security Services

- Features include: a wired/wireless firewall, a built-in wireless intrusion protection system (WIPS), an integrated IPSec VPN gateway1, AAA Radius Server, and secure guest access with a captive web portal, MAC-based authentication, 802.11w to secure management frames, NAC support, anomaly analysis, and advanced security services, such as role-based firewall.

Smart RF

- Smart RF management mitigates the RF disruption caused by Wi-Fi and non-Wi-Fi interference, faulty antennas, dynamic dead spots, or neighboring access point failures by allowing the WLAN to automatically and intelligently adapt to changes in the RF environment.

BYOD Support

- The WiNG 5 OS provides the device fingerprinting, role-based policy enforcement, and analytics1 required to help manage and secure user-owned devices. For more info, please visit wing.extremenetworks.com.

End-to-End Support Services

Services for Every Phase of Your WLAN Lifecycle

- Increase uptime and reduce risk and support costs with our optional comprehensive support service offerings — from planning and implementation to post-deployment everyday support.

WiNG 5 for Superior WLAN Performance, Scalability, Reliability, and Quality of Service

The ExtremeWireless WiNG 5 architecture distributes intelligence to every point in your network — including the NX Integrated Services Platform portfolio and their connected access points. Now, the platforms as well as access points are all capable of determining the best route for traffic, maintaining Quality of Service (QoS) and security policies. The result? Bottlenecks in traditional hub-and-spoke networks are eliminated. The NX 7510 supports 1:1 failover for high availability, with no additional licensing fees for the redundant system.

Extreme Reliability

You can order your NX 7500 with a redundant power supply or add one at any time, right in your facility — no need to return the controller to a service depot. The 64 GB solid-state drive stores and protects firmware images and critical data. RAID-1 capability and dual hot-swappable hard drives provide that extra peace of mind that comes from knowing your data is safe from single hard drive failures.

Deliver best-in-class wireless performance, simplify network control, reduce network costs, and provide your workers with more wireless services to increase business efficiency with the NX 7500.

Specifications

Physical Characteristics	
Dimensions	1U, rack-mountable 17.2 in W x 1.76 in H x 21.28 in D 430 mm W x 42 mm H x 532 mm D
Weight (With 1 PS)	NX 7510 – 41.8 lb./19 kg NX 7520 – 44 lb./20 kg NX 7530 – 46.2 lb./21 kg
Memory	16GB RAM
Storage	64GB solid-state drive for firmware images and critical data Single 500GB hard-drive (NX 7510, NX 7520) RAID-1 with dual 500GB hard drives (NX 7530)
Acoustic Noise	40 dB(A)

Product SKUs	
NX-7510-100R0-WR	NX 7510 Integrated Services Controller with a single hard drive and single AC power supply *(second power supply AC/DC can be added – see accessories)*
NX-7520-100R0-WR	NX 7520 Integrated Services Controller with a single hard drive and dual DC power supplies
NX-7530-100R0-WR	16GB RAM

User Environment	
Operating Temp	32°F to 104°F/0°C to 40°C
Storage Temp	-4°F to 167°F/-20°C to 75°C
Operating Humidity	5% to 85% at 104° F/40° C
Storage Humidity	5-95%

Performance and Capacity	

• 2048 access points (locally bridging)
• 1024 access points (extended VLANs)
• 20Gbits/sec data throughput
• 8Gbits/sec crypto throughput
• Can be used as a NOC controller or site controller with ONEVIEW (hierarchical management)
	• 2,048 RF domains
	• 256 wireless LANs
	• Wireless Clients:
	  • 16,384 – Operating as a site/campus controller
	  • 65,536 – Operating as a NOC controller

Accessories	
NX-7500-10G-NMC	10G NMC Module for use with 10G SFP+Transceivers
NX-7500-SFPPL-SX	10GBPS Short range 850nm Multi-mode SFP+Transceiver *(use with 10G NMC)*
NX-7500-10G-NMC	10G NMC Module for use with 10G SFP+Transceivers
NX-7500-SFPPL-LX	10GBPS Long range 10km Single-mode SFP+Transceiver *(use with 10G NMC)*
NX-7500-1G-NMC	1G NMC Module for use with 1G SFP Transceivers
NX-7500-SFP-SX	1GBPS Short range SFP Transceiver *(use with 1G NMC)*
NX-7500-SFP-LX	1GBPS Long range SFP Transceiver (use with 1G NMC)
NX-7500-AC-PSU	Spare AC power supply for NX 7510 or NX 7530 (weight 4.4 lb./2 kg)
NX-7500-DC-PSU	Spare AC power supply for NX 7510 or NX 7530 (weight 4.4 lb./2 kg)
NX-7500-RAIL	Mounting Kit with Sliding Rails (Note: Rack mount ears are included with the base unit)
NX-7500-HD-500GB	NX-7530 - Spare 500 GB hard drive

Interfaces and Management
• Six 10/ 100/ 1000 Base-T Ethernet ports (copper) • NMC card slot for 1GbE fiber (SFP) or 10GbE SFP+ ports • Two USB 2.0 interfaces • RS-232 serial console (RJ-45) interface • LCD panel with navigation buttons

Power	
Power Supply	• NX 7510 / NX 7530 – 300 Watts, • 100-240V AC • PSU @ 50Hz-60Hz • NX 7520 – 300 Watts, -48V DC
Power Consumption	110 Watts

Licenses	
NX-7500-ADP-8	Adaptive AP License Certificate for 8 Access Points or Controllers
NX-7500-ADP-64	Adaptive AP License Certificate for 64 Access Points or Controllers
NX-7500-ADP-256	Adaptive AP License Certificate for 256 Access Points or Controllers
NX-7500-ADP-1024	Adaptive AP License Certificate for1024 Access Points or Controllers
NX-7500-ADSEC-LIC	Advanced Security License (Role-based Firewall and increased VPN tunnels)

Warranty

As a customer-centric company, Extreme Networks is committed to providing quality products and solutions. In the event that one of our products fails due to a defect, we have developed a comprehensive warranty that protects you and provides a simple way to get your products repaired or media replaced as soon as possible.

For full warranty terms and conditions please go to: support.extremenetworks.com

Service and Support

Extreme Networks provides comprehensive service offerings that range from Professional Services to design, deploy, and optimize customer networks, with customized technical training, to service and support tailored to individual customer needs.

Please contact your Extreme Networks account executive for more information about Extreme Service and Support.

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