PRODUCT SPEC SHEET
NX 7500 INTEGRATED SERVICES PLATFORM SERIES

ZEBRA

NX 7500 INTEGRATED SERVICES PLATFORM SERIES

NEXT GENERATION WIRELESS SERVICES FOR MID-SIZE AND CAMPUS ENVIRONMENTS

ADVANCED WLAN 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 mid- size 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, 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.

MULTI-SERVICE PLATFORM

The virtualized framework and integrated 500 GB hard drive allow you to host, deploy and manage applications right on the NX 7500 — the need to purchase and manage additional hardware is eliminated.The NX 7500 can host Zebra industry leading wireless security solution, WLAN Security Services Platform[1]. A central VM management dashboard allows you to manage VMs installed on remote NX 4500/6500 Series controllers. And many security features are also integrated, including a role-based firewall, a VPN and an Intrusion Detection System (IDS). The result? You get extraordinary management simplicity, as well as minimal space and power requirements in the IT closet. And you can deploy services faster, easier and less expensively than ever before — including voice and video.

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

POWERED BY THE ADVANCED WING 5 OPERATING SYSTEM

WiNG 5 provides the advanced brainpower 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

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 that 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.

For more information, please visit **www.zebra.com/wlan** or access our global contact directory at **www.zebra.com/contact**

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)

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

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%

INTERFACES AND MANAGEMENT

- Six 10/ 100/ 1000 Base-T Ethernet ports (copper)

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	NX 7530 Integrated Services Controller with RAID-1, dual hard drives and a single AC power supply (second power supply AC/DC can be added – see accessories)

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-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 DC power supply for NX 7510 or NX 7530 (weight 4.4 lb./2 kg)

network — from access points that are adopted directly by the NX 7500 to NX 4500/6500 and RFS 4000 branch-level controllers and their adopted and standalone WiNG 5 access points.

Smart Routing

Every piece of infrastructure in your WLAN with the intelligence required to work together to route every transmission as efficiently as possible. Traffic is no longer routed through a centralized controller, eliminating network congestion and latency.

Comprehensive integrated network security services

Features include: a wired/ wireless firewall, a built-in wireless intrusion protection system (IPS), an integrated IPSec VPN gateway[1], 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 analytics[1] required to help manage and

- 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

1. ADSP unified mode, IPsec VPN and Analytics support will be enabled in a follow-on software release.

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

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)

secure user-owned devices.
For more information on WiNG 5, please visit www.motorolasolutions

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.

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