



EX 3500 ETHERNET SWITCH

EQUIPPED THE WIRED ETHERNET SWITCH FOR UNIFIED WIRED-WIRELESS NETWORKS

GET ALL THE WIRED NETWORKING FEATURES YOU NEED, PLUS THE SIMPLICITY OF A SINGLE POINT OF MANAGEMENT FOR ALL YOUR WIRELESS AND WIRED NETWORK INFRASTRUCTURE

The perfect complement for your Zebra WLAN, the EX 3500 addresses all the access layer needs in your branch and remote office deployments. This economical, standalone solution offers all the features you need in a wired access switch, with the advantages of centralized management through your Zebra WiNG-based NX Integrated Services Platforms. Now, not only can you easily support your wired networking requirements, you can also monitor and manage all your wired and wireless equipment with the simplicity of a single pane of glass, reducing management time and complexity.

Simplify the deployment and management of your wired and wireless network with the EX 3500 Ethernet Switch. For more information on the EX 3500, please visit www.zebra.com/wlan or access our global contact directory at www.zebra.com/contact

TECHNICAL SPECIFICATIONS

PART NUMBERS

EX-3524-0000-00-WR: 24GE + 4SFP Wired PoE/PoE+ Switch

EX-3548-0000-00-WR: 48GE + 4SFP Wired PoE/PoE+ Switch

EX 3524

EX 3548

PHYSICAL CHARACTERISTICS

Form factor

1U Rack Mount

Dimensions (WxDxH)

44.0 x 28.0 x 4.4 cm	44.0 x 40.9 x 4.4 cm
17.32 x 11.0 x 1.73 in.	17.32 x 16.10 x 1.73 in

FEATURES AND BENEFITS HIGHLIGHTS

High performance GbE wired switch for your converged network

- Fixed configuration 24 GbE and 48 GbE ports for all the branch/low-density converged wired networking requirements.
- 4 front panel SFP GbE ports for upstream connectivity.

Comprehensive security features keep your network and data safe

- User access and authentication features include access control, standards-based 802.1x port-level access control, MAC authentication, MAC limiting.
- Threat detection features include DHCP snooping, Dynamic ARP inspection, Proxy ARP, IP source guard, Broadcast/multicast storm control, MAC based port security.

Easy and cost-effective deployment with Power-over-Ethernet (PoE)

- Eliminates the cost of running power to wired devices, such as access points, IP phones and video cameras.
- PoE available on all ports, both 24 and 48 port models, simultaneously.
- Comprehensive protocol support for 802.3af/802.3at (PoE/PoE+) at 15.4W or 30W provides future proofing, ensuring

Weight	3.6 kg (7.83 lb.)	6.6 kg (14.55 lb.)
AC input	100-240 V, 50-60Hz, 6A	100-240 V, 50-60Hz, 12A
Power Budget (PoE)	Up to 370W	Up to 740W
Ethernet Ports	24xGbE + 4x1G SFP	48xGbE + 4x1G SFP

ENVIRONMENTAL RANGES

Operating temperature	32° F to 122° F/0° C to 50° C	
Storage temperature	-40° F to 158° F/-40° C to 70° C	
Operating altitude	4,004 m (13,136 ft.)	2,000 m (6,561 ft.)
Non-operating altitude	4572 m (15,000 ft.)	
Operating humidity	10% to 90% (non-condensing)	
Storage humidity	10% to 90% (non-condensing)	

SWITCHING/LAYER-2 THROUGHPUT

Packet switching in Gbps	56	104
Throughput in Mpps	41.664	77.376

COMMON FEATURES

Optics and connectors

100BASE-FX: 100 Mbps at full duplex (SFP)

1000BASE-T: 10/100 Mbps at half/full duplex, 1000 Mbps at full duplex

1000BASE-SX/LX/LH: 1000 Mbps at full duplex (SFP)

Layer-2 switching

Max MAC addresses: 16K

that the EX 3500 you buy today can provide power to the PoE-enabled devices of the future.

Quality of Service (QoS) ensures network performance

- Supports multi-layer QoS including 802.1p CoS and DiffServ standards for data/voice and video traffic and maintaining end-to-end traffic prioritizations.
- Scheduling policy options include Strict, WRR and Strict-WRR.

Auto-discovery and centralized remote management — through your NX Integrated Services Platforms

- Industry standard LLDP (Link Layer Discovery Protocol) and LLDP-MED (Link Layer Discovery Protocol-Media Endpoint Discovery) enable auto discovery of devices, VLAN configuration and identification of power requirements for efficient power management.
- Remotely stage, configure, monitor and manage the wired EX 3500 through your NX Integrated Services Platforms, just like all of your wireless infrastructure, providing the simplicity of a single management windowpane for your entire wired and wireless network.

Jumbo frames (bytes): 10K

Number of VLANs: 4K (256 active)

Port-based-VLAN

Layer-2 switching (continued)

MAC-based-VLAN

Voice VLAN

Private VLAN: Traffic Segmentation

Multicast VLAN registration

IEEE 802.1a/b Link Layer Discovery Protocol (LLDP)

LLDP-MED with VoIP integration

IEEE 802.1d: Spanning Tree Protocol

IEEE 802.1p: CoS prioritization

IEEE 802.1v: Protocol-based VLAN

IEEE 802.1Q: VLAN tagging

IEEE 802.1Q-in-Q: VLAN stacking

IEEE 802.1s: Multiple Spanning Tree protocol (MSTP)

Number of MST instances: 32

IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)

IEEE 802.1x: Port Authentication

IEEE 802.3: 10BASE-T

IEEE 802.3u: 100BASE-T

IEEE 802.3ab: 1000BASE-T

IEEE 802.3z: 1000BASE-X

IEEE 802.3af: PoE

IEEE 802.3at: PoE+

IEEE 802.3ad: Link Aggregation Control Protocol (LACP)

Layer-3 features

Static Routing

Max IPv4 unicast routes: 32

Max ARP entries: 104

Security and access control

DHCP snooping

Dynamic ARP inspection

Proxy ARP

IP Source guard

IP Filter (Management IP Filter for Telnet/HTTP/SNMP access)

Security and access control (continued)

Port security (MAC based)

Access Control Lists (512 entries)

Port-based ACL

802.1x port authentication

MAC authentication

MAC limiting

Storm control: Broadcast, multicast traffic threshold

Quality of service (QoS) and rate-limiting

Scheduling: Strict, Strict-WRR, WRR

802.1p, DSCP/IP precedence trust and marking

Queues per port: 4

Input/output rate limits (per port)

Port trunking/mirroring

Mirroring: 6 sessions (multi-source-to-one-destination)

Static trunks (EtherChannel compliant)

802.3ad: Dynamic trunks (LACP)

Number of LAGs supported: 12

Max number of ports/LAG: 8

Multicast

IGMP snooping: 255 groups

IGMP: v1, v2, v3

Management/services

CLI

Web interface

Out-of-band management : Console port

SSH v1, v2

BOOTP client

DCHP client

DNS client, proxy

Remote Monitoring (RMON) Groups 1,2,3,9

Simple Network Time Protocol (SNTP)

Management/services (continued)

Simple Network Management Protocol (SNMP): v1, v2, v3

RADIUS (client)

TACACS+ (client)

HTTP/HTTPS

Logging: Syslog

FTP/TFTP

Telnet

Troubleshooting

Diagnostics: show and debug commands

Traffic mirroring (port-mirroring)

**ZEBRA WLAN
UNLEASH OPTIMAL**



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