



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		Layer-3 features	
EX-3524-0000-00-wr: 24ge + 4sfp wired PoE/PoE+ switch		Static routing	
EX-3548-0000-00-wr: 48ge + 4sfp wired PoE/PoE+ switch		MAX IPv4 unicast routes: 32	
		MAX ARP entries: 104	
PHYSICAL CHARACTERISTICS		Security and access control	
Form factor	1U rack mount		DHCP Snooping
Dimensions (WxDxH)	44.0 x 28.0 x 4.4 cm	44.0 x 40.9 x 4.4 cm	Dynamic ARP inspection
	17.32 x 11.0 x 1.73 in.	17.32 x 16.10 x 1.73 in.	Proxy ARP
Weight	3.6 kg (7.83 lb.)	6.6 kg (14.55 lb.)	IP source guard
AC input	100-240 V, 50-60hz, 6a	100-240 V, 50-60hz, 12a	IP Filter (management ip filter for Telnet/HTTP/SNMP access)

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

Power Budget (PoE)	Up to 370W	Up to 740W	Port security (mac based)
Ethernet Ports	24xGbE + 4x1G SFP	48xGbE + 4x1G SFP	Access control lists (512 entries)

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

ENVIRONMENTAL RANGES			Port-based acl
Operating temperature	32° F to 122° f/0° c to 50° C		802.1x port authentication
Storage temperature	-40° F to 158° f/-40° c to 70° C		Mac authentication
Operating altitude	4,004 m (13,136 ft .)	2,000 m (6,561ft.)	Mac limiting
Non-operating altitude	4572 m (15,000 ft.)		Storm control: Broadcast, multicast traffic threshold
Operating humidity	10% to 90% (non-condensing)		Quality of service (QoS) and rate-limiting
Storage humidity	10% to 90% (non-condensing)		Scheduling: strict, strict-wrr, wrr

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.

SWITCHING/LAYER-2 THROUGHPUT			802.1p, dscp/ip precedence trust and marking
Packet switching in Gbps	56	104	Queues per port: 4
Throughput in Mpps	41.664	77.376	Input/output rate limits (per port)

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.

COMMON FEATURES			Port trunking/mirroring
Optics and connectors			Mirroring: 6 sessions (multi-source-to-one-destination)
100BASE-FX: 100 mbps at full duplex (SFP)			Static trunks (etherchannel compliant)
1000BASE-T: 10/100 Mbps at half/full duplex, 1000 Mbps at full duplex			802.3ad: dynamic trunks (lACP)
1000Base-SX/LX/LH: 1000 Mbps at full duplex (sfp)			Number of lags supported: 12
Layer-2 switching			Max number of ports/lag: 8
MAX MAC addresses: 16k			Multicast
Jumbo frames (bytes): 10k			IGMP snooping: 255 groups
Number of VLANS: 4k (256 active)			IGMP: v1, v2, v3
Port-based-Vlan			Management/services
MAC-based-VLAN			CLI
Voice VLAN			Web interface
Private VLAN: traffic segmentation			Out-of-band management : console port
multicast Vlan registration			SSH v1, v2
IEEE 802.1a/b link layer discovery protocol (LLDP)			BOOTP client
LLPD-MED with Voip integration			DCHP client
IEEE 802.1d: spanning tree protocol			DNS client, proxy
IEEE 802.1p: cos prioritization			Remote monitoring (RMON) groups 1,2,3,9
IEEE 802.1v: protocol-based Vlan			Simple network time protocol (SNTP)

IEEE 802.1Q: VLAN tagging	Simple network management protocol (SNMP): v1, v2, v3
IEEE 802.1Q-in-Q: VLAN stacking	RADIUS(client)
IEEE 802.1s: multiple spanning tree protocol (mstp)	TACACS+ (client)
Number of MST instances: 32	HTTP/HTTPS
IEEE 802.1w Rapid spanning tree protocol (rstp)	Logging: syslog
IEEE 802.1x: Port authentication	FTP/TFTP
IEEE 802.3: 10Base-t	Telnet
IEEE 802.3u: 100Base-t	Troubleshooting
IEEE 802.3ab: 1000Base-t	Diagnostics: show and debug commands
IEEE 802.3z: 1000Base-x	Traffic mirroring (port-mirroring)
IEEE 802.3af: PoE	
IEEE 802.3at: PoE+	
IEEE 802.3ad: Link Aggregation Control Protocol (LACP)	

**ZEBRA WLAN
UNLEASH OPTIMAL**



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