



# 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](http://www.zebra.com/wlan) or access our global contact directory at [www.zebra.com/contact](http://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                                          |
| EX 3524                                               | EX 3548                                         | Security and access control                                   |
| PHYSICAL CHARACTERISTICS                              |                                                 | DHCP Snooping                                                 |
| Form factor                                           | 1U rack mount                                   | Dynamic ARP inspection                                        |
| Dimensions (WxDxH)                                    | 44.0 x 28.0 x 4.4 cm<br>17.32 x 11.0 x 1.73 in. | Proxy ARP                                                     |
| Weight                                                | 3.6 kg (7.83 lb.)                               | IP source guard                                               |
| AC input                                              | 100-240 V, 50-60hz, 6a                          | 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)                       |
| 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                      |
| 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)                      |
| 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)                      |

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.

|                                                        |                                                       |
|--------------------------------------------------------|-------------------------------------------------------|
| 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                                 | <b>Troubleshooting</b>                                |
| 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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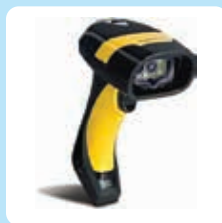
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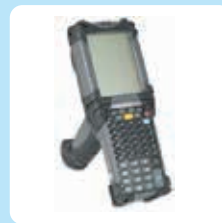
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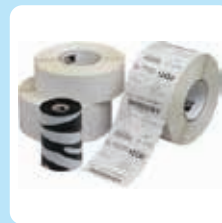
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