The Avaya Ethernet Routing Switch (ERS) 3500 is a series of six high-performance compact Ethernet switches specifically designed for SMEs, branches and open environments outside the wiring closet.

A cost-effective, feature-rich solution, the ERS 3500 Series provides both standalone and stackable Ethernet switching perfectly suited to the unique requirements of SMEs and remote offices.

The Avaya Ethernet Routing Switch 3500 is a reliable, low-cost solution that provides converged services within single or multiple sites typically of 200 users or less.

It offers three models which can operate in fanless mode to provide silent operation for classrooms, hospitality suites, retail sites or other noise sensitive environments outside the wiring closet.

It also supports IEEE 802.3at Power over Ethernet Plus (PoE+) which can power IP phones, wireless access points, surveillance cameras and other devices. PoE+ with its 32-watt power budget ensures investment protection for current as well as future high-powered end points.

For environments that need upside capacity, all ERS 3500 24-port models support Avaya’s Stackable Chassis Architecture. This allows up to eight ERS 3500 units to be cabled together to form a single logical chassis with up to 200 ports and 80 Gigabits of virtual backplane capacity. The ERS 3500 stackable chassis architecture can also improve network availability and resiliency through hot-swap and link aggregation capabilities across the stack.

Delivering high performance Layer 2 switching, Layer 3 local and static routing, advanced convergence and a range of security features, the ERS 3500 provides enterprise class features at an SME price. It also can automate many of today’s manual processes to simplify operations and reduce costs for the cost conscious enterprise.

**Simplified Operations**

The ERS 3500 is well suited for smaller environments where there might be little or no local IT staff. It is designed to be simple to install, manage and operate. And when deployed in conjunction with an Avaya IP Office system the ERS 3500...
offers increased operational simplicity over third party switching solutions through features that both simplify the initial deployment as well as ongoing adds, moves and changes.

Automated switch set up with Avaya IP Office

For deployment scenarios where there may not be a data networking support specialist on site, the ERS 3500 provides an automated script to enable fast, error free installation when deployed with IP Office. This installation script called “run ip office” automates the entire set up process on the ERS 3500 switch by utilizing LLDP or ADAC functionality to automatically set up voice and data VLANs, QoS and policies on the IP phones, meaning that IP Office and IP Phones are ready to be connected immediately. This helps ensure fast setup and error free deployment according to Avaya best practices and consistency between different locations for large rollouts in multiple branch offices.

Validated interoperability with Avaya IP Office

Avaya has also validated interoperability between the ERS 3500 and the IP Office system to ensure the two products work together seamlessly. This eliminates any complexities associated with having to provision, manage and troubleshoot a third party switch with the Avaya voice / unified communications infrastructure. A Technical Solutions Guide, available to partners and end customers, showcases best practice configurations, ensuring optimal performance of the solution.

Certified 1-minute plug-and-play for IP phones

Plug and play means that as soon as an IP phone is plugged into an Avaya Ethernet switch, the IP phone is automatically recognized and configured. This feature can dramatically simplify the roll out of IP phones and simplify ongoing adds, moves and changes; empowering employees to move their own phones without the assistance of an outside contractor. To enable this plug and play capability, Avaya offers IEEE 802.1AB Link Layer Discovery Protocol and LLDP-Media Endpoint Discovery (LLDP-MED) as well as the Avaya Auto Discovery and Auto Configuration (ADAC) feature.

The ERS 3500 Series models

Fast Ethernet Models

<table>
<thead>
<tr>
<th>Model</th>
<th>Ports</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERS 3526T</td>
<td>24 x 10/100Mbps + 2 Combo 10/100/1000 or SFP ports + 2 SFP / 2.5G rear ports. Fanless.</td>
<td></td>
</tr>
<tr>
<td>ERS 3526T-PWR+</td>
<td>24 x 10/100Mbps PoE+ ports + 2 Combo 10/100/1000 or SFP ports + 2 SFP / 2.5G rear ports. PoE budget 370W.</td>
<td></td>
</tr>
</tbody>
</table>

Gigabit Ethernet Models

<table>
<thead>
<tr>
<th>Model</th>
<th>Ports</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERS 3510GT</td>
<td>8 x 10/10/1000Mbps + 2 SFP ports. Standalone, fanless.</td>
<td></td>
</tr>
<tr>
<td>ERS 3510GT-PWR+</td>
<td>8 x 10/10/1000Mbps PoE+ ports + 2 SFP ports. Standalone. Fanless mode @ 60W PoE budget, Fan operation mode @ 170W PoE budget.</td>
<td></td>
</tr>
<tr>
<td>ERS 3524GT</td>
<td>24 x 10/10/1000Mbps with 4 shared SFP ports (combo with ports 21-24) + 2 SFP / 2.5G rear ports.</td>
<td></td>
</tr>
<tr>
<td>ERS 3524GT-PWR+</td>
<td>24 x 10/10/1000Mbps PoE+ ports with 4 shared SFP ports (combo with ports 21-24) + 2 SFP / 2.5G rear ports. PoE budget 370W.</td>
<td></td>
</tr>
</tbody>
</table>

With LLDP enabled, the ERS 3500 learns the identification of neighboring devices and provides these details to the network management system. This enables the system to have the most up-to-date physical view of the network. In addition, ERS 3500 can dynamically apply voice VLANs and QoS to both the IP phone and the attached edge switch port. When the IP phone is moved to another location, the configuration is automatically updated. QoS is also automatically
provisioned on the ERS 3500 uplink ensuring voice is given top priority into the network core. With one of the most comprehensive implementations of LLDP in the industry, Avaya offers enhancements for standards based provisioning of Avaya IP Phones via integrated and customizable TLV support.

These features not only save network operators time, they can virtually eliminate the likelihood of a provisioning error during a large IP phone deployment. Third-party testing conducted by Miercom validated that when IP phones were plugged into an Avaya Ethernet Switch, they were operational in just over 1 minute.

**Intuitive Management**

ERS 3500 Series offers flexible options for managing, troubleshooting and operating your devices.

- For customers most comfortable using the Command Line Interface (CLI), the ERS 3500 offers an industry-aligned CLI that is intuitive and requires little to no formal training for individuals with Ethernet switching backgrounds.
- For customers who are looking for a simple Graphical User Interface (GUI) for management and provisioning, Avaya’s Enterprise Device Manager (EDM) is an embedded web-based element management and configuration tool that enables set-up, configuration and monitoring of a single device using either HTTP or HTTPS (Secure Web). The on-box embedded version of EDM is available at no extra charge with every switch and can be accessed by a standard web browser. There is also an off-box version available as a free downloadable software plug-in that can be installed on Avaya’s Configuration and Orchestration Manager (COM) application.

  - For customers rolling out many ERS 3500 devices, the Avaya Configuration and Orchestration Manager (COM) application, simplifies multi-element configuration via wizards and templates – increasing consistency and reducing the chances of error during configuration changes. COM also provides network discovery, device backup, bulk configuration management and audits of configuration changes.
  - SNMP-based management (SNMP v1, v2 and v3) provides an alternative standards-based management approach as well as an interface for Configuration and Orchestration Manager.

The Avaya ERS 3500 supports secure management via IPv4 or IPv6 through features such as Secure Shell (SSHv1/2), Secure Sockets Layer (SSL), Simple Network Management Protocol (SNMPv1,2,3), IP Manager Lists, and administrative authentication via RADIUS or TACACS+ when connecting to the switch or stack.

ERS 3500 Series capabilities have been enhanced with the v5.1 feature release. Key features include:

- Introducing resilient stacking on all ERS 3500 24-port models. Up to 8 units can be connected into a single stack with up to 192 ports of capacity and 80 Gbps of virtual backplane bandwidth
- New DHCP Server support enabling the ERS 3500 to automatically assign IP addresses to end-devices, such as IP phones and PCs.
- Improved 802.1X EAP/NEAP set-up and accounting for more flexible configuration and reporting.
- Enhanced storm control providing per port granular broadcast, multicast & unicast packet rate control

The ERS 3500 v5.1 also incorporates several features from prior feature pack releases, including:

- Quick Set-up for IP Office script to automate the set-up of IP Office systems and phones on the ERS 3500. With v5.1, the script has also been enhanced to extend IP Office set-up across multiple ERS 3500s in a stack.
- Voice VLAN Integration that centralizes and simplifies Voice VLAN set-up. Functions, such as Layer 3 routing or static ports, can be easily assigned across the VLAN.
Convergence-ready for Unified Communications, High-Definition Video and more

For businesses looking to consolidate all forms of communication – voice, video and data – on a single infrastructure, the Avaya ERS 3500 Series delivers functionality that simplifies convergence of these technologies.

Support for IEEE 802.3at PoE+ to power your device

Through support for IEEE 802.3at PoE+ which delivers up to 32 Watts of power per port to end devices, ERS 3500s are able to power IP phones, wireless LAN access points, networked high-definition CCTV cameras and other devices. This eliminates the need for separate power supplies for each unit, enabling reduced cabling and management costs for adds, moves, or changes.

The higher power budget delivered by the PoE+ standard ensures that customers have the added flexibility of converging video surveillance traffic over the network, since pan, tilt and zoom cameras are one of the end devices that require the additional power provided by PoE+. It also ensures investment protection for future end points, such as new Wireless LAN Access Points (3x3 802.11n access points and emerging 802.11ac access points) as well as next-generation video phones.

The 24-port PoE+ enabled products (ERS 3526T-PWR+ and ERS 3524GT-PWR+) support a maximum power budget of 370 Watts and the 10-port Gigabit Ethernet model (ERS 3510-PWR+) supports a maximum power budget of 170 Watts – dramatically higher than competitive switches in its class – enabling it to deliver a concurrent average of 20 Watts of power to each of the eight PoE+ enabled access ports.

Comprehensive QoS capabilities

The ERS 3500 series delivers unsurpassed control for networks supporting a wide range of different application types. The ERS 3500 classifies, prioritizes and marks LAN IP traffic using up to four hardware IP queues on every port – including the rear SFP ports.

Classification can be based on MAC address, IP ToS/DSCP marking, IP source/destination address or subnets, TCP/UDP source/destination port/port range, IEEE 802.1p user priority bits, ingress source port, IP Protocol ID (e.g., TCP, UDP, IGMP), EtherType (e.g., IP, IPX) or the IEEE 802.1Q VLAN ID. Comprehensive traffic policing and traffic shaping are also supported.
Intelligent stacking solution delivering scalability, flexibility, resilience and performance

No one knows stacking like Avaya. We introduced our first Stackable Chassis product in 1998 and have been perfecting the technology ever since. We were the first and only vendor to break the Terabit boundary with our ERS 5600 Series products and we have differentiated ourselves in the industry by ensuring that our Stackable Chassis perform like a traditional modular chassis implementation. We offer genuine chassis-like features including true pay-as-you-grow scaling and in service maintenance and restoration. From a management perspective, our Stackable Chassis looks like a single network entity – utilizing only a single IP address.

A stack of up to eight 24-port Avaya ERS 3500 units can be created, enabling the Ethernet Routing Switch 3500 series to deliver up to 80Gbps stacking throughput by scaling up to 192 x 10/100 ports and 16 x 10/100/1000/ SFP combo ports, or 192 x 10/100/1000 ports. Stacking is supported on ERS 3526T/ERS 3526T-PWR+ and ERS 3524GT/3524GT-PWR+ models.

High performance architecture with true pay-as-you grow scaling

Our Stackable Chassis products combine non-blocking internal switching fabrics with high-speed virtual backplane architecture for a high performance solution that scales proportionally as new switches are added. The ERS 3500 series scales to a maximum of 80Gbps of virtual backplane throughput by simply cabling up 8 units together. Avaya’s Stackable Chassis architecture simplifies stack management. Customers do not have to worry about different software versions on different products, since all ERS 3500 units run the same software image. The software image is loaded onto the base unit of the stack which then loads the image to all the other switches in the stack. As new units are added to the stack, the ERS 3500 automates the software image and configuration download process. Third party testing has validated that new ERS 3500 units can become operational in just over 2 minutes of being cabled into the stack.

To ensure wire-speed performance, our Stackable Chassis architecture is based on a shortest-path forwarding algorithm for optimal data flow across the stack. Unlike competitive solutions that use unwieldy logical ring or token technology, Avaya allows traffic to flow upstream and downstream simultaneously from every switch connected to the virtual backplane, optimizing performance, resiliency, and resource utilization. Avaya has an additional advantage in that Quality-of-Service settings are honored as traffic passes over the stacking connections – providing applications with optimal performance, and a positive user experience.

All ERS 3500 24-port models come with two in-built Stackable Chassis interfaces for simple, cost-effective and efficient connectivity. Unlike comparative offerings which daisy chain low-speed interfaces, this design frees uplink ports for dedicated connectivity to the backbone. In addition to the stacking cables, a return cable is also used to provide full virtual chassis resiliency and to protect against any stack port, switch unit or cable failures.

Unlike competitive solutions which charge large premiums for stacking, the ERS 3500 offers the ability for customers to utilize its Stackable Chassis architecture without incurring any licensing or hardware costs.

In-service maintenance and restoration

Virtual hot swap, a critical serviceability and operability capability, helps ensure that failure in any stacked unit is quickly and easily
rectified. Pioneered in modular switches, virtual hot swap is available in Avaya stackable chassis solutions where, without complex engineering, it enables immediate like-for-like unit replacement with no impact on other functionality and traffic, empowering operators to deploy our solutions just as they would a chassis. If a failure occurs, neighboring switches automatically wrap their fabric connections to help ensure that other switches in the stack are not impacted. The failed unit is simply disconnected from the fabric and, without pre-staging of software or configuration, a like unit is inserted, cabled, and powered-up. The Automatic Unit Replacement (AUR) process self-manages the software and configuration downloads to the new switch then brings it online, without the need for an engineer to manage the process.

Further complementing the Avaya ERS 3500 stacking architecture, Avaya supports standards-based 802.3ad Link Aggregation as well as its own Multi-Link Trunking technology that allows grouping of ports to form high-speed trunks/aggregations. These bundles or groups of ports can be distributed across different units in the same stack, delivering higher levels of resilience in case of link or switch failure to help ensure that traffic gets to its destination.

Stack health-check monitoring, a real-time, at-a-glance view of stack operational status and health, further enhances operational and management simplicity.

### Centralized Management

From a management perspective, an ERS 3500 stackable chassis solution appears as a single networking entity – utilizing only a single IP Address. This can significantly reduce the number of switches to be managed within the network as a stack of up to 8 switches can be managed just as easily as a single switch.

### Securing access at the edge

The Ethernet Routing Switch 3500 offers the highest level of security with authenticated network access that leverages IEEE 802.1X Extensible Authentication Protocol (EAP) with multiple extensions including support for Multi-Host Multi-Authentication mode (MHMA), Multi-Host Single-Authentication mode (MHSA), non EAP device support (i.e. printers, etc.) and RADIUS based MAC authentication support. Up to 32 host devices per switch port are supported in these modes.

Based on the IEEE 802.1X standard, EAP limits access to the network based on user credentials. A user is required to login to the network using a username/password; the user database is maintained on the authentication server (not the switch). Additionally MAC-address based security limits access to only network-authorized and trusted personnel, including full tracking of network connections. Network access is granted or denied via proper MAC-address identification (up to a maximum of 448).

When advanced, policy-based and centralized user/device authentication is required, the Avaya ERS 3500 can be used in conjunction with the innovative Avaya Identity Engines portfolio solution. This easy-to-deploy, policy-based solution assigns network access rights and permissions based on user role, where the user connects (local or remote) and how the user connects (wired or wireless). In this way, each connected device and user are known and are governed by device-specific security policies. For example, based on their network credentials, an employee using a corporate owned device will be granted full corporate access however, while using a non-corporate-owned device, they will be granted limited access.

As the number of employee-owned devices increases, Identity Engines can help network operators retain control by running device health checks and verifying user and device credentials. Identity Engines helps ensure that network access permission levels are enforced and adhered to without undue effort on the part of the IT staff. It also helps ensure that consistent access and security policies are applied to all end points – whether they be wired or wireless.
In addition, the Avaya ERS 3500 offers security features that actively protect against malicious network attacks. These include protection from snooping of DHCP services, verification and filtering of ARP traffic via in-hardware processing (Dynamic ARP inspection), restriction of IP traffic to registered end devices (IP Source Guard), and control of the flow of Spanning Tree BPDUs within the network (BPDU Filtering).

**Compact Form Factors with Flexible Installation Options**

The 10 port ERS 3500 models (3510GT & 3510GT-PWR+), which are 1U tall, 8.75” wide and 8” and 11” deep respectively, can be installed on a table or shelf using rubber feet (included), or can be wall mounted using the wall mount screws and anchors (also included). Additionally, optional rack accessory kits are available allowing the ERS 3510GT and ERS 3510 GT-PWR+ to be mounted either alone or with two units side-by-side in a standard 19” rack.

The 24 port ERS 3500 can be installed on a table or shelf or wall mounted using the included rack mount brackets mounted at 90 degrees, or in a standard 19” equipment rack.

**Energy Efficiency**

New regulations and rising awareness of the ever-increasing cost of electrical power keep energy efficiency top of mind. An innovator in this area, Avaya has built energy efficiency into many of its hardware products. In fact, independent testing indicates that Avaya LAN Switches, Call Servers, Gateways, Unified Messaging Servers and Gigabit IP Phones are typically more energy efficient than competitive equipment.

The ERS 3500 is based on highly efficient power supplies – delivering over 80% efficiency. The ERS 3500 also supports dynamic power management where each port can be configured to limit the power delivered to a device and for power priority level—low, high, and critical.

The ERS 3500 also supports Energy Efficient Ethernet in hardware. This, along with Avaya Energy Saver functionality, will be enabled in a future software release. Together, these features can further conserve energy by turning down port speeds during designated off-peak hours.

**Lifetime Warranty**

Avaya includes industry-leading warranty services for our portfolio of stackable switches, including Avaya ERS 3500 Series products. The warranty includes complimentary next-business-day shipment of failed units for the life of the product, and ongoing technical support. This includes support for the shipped software version, with an optional Software Release Service available to provide access to new feature releases.

**Summary**

Avaya is positioned to provide an end-to-end solution for converged networks. The Ethernet Routing Switch 3500 series, along with other Avaya products, can increase profitability and productivity, streamline business operations, lower costs and help your business gain a competitive edge.
## Model Specifications

### ERS 3526T

**Switch Details:**
- 24 10/100Base-TX ports, plus 2 combo 10/100/1000BASE-T or SFP ports
- 2 rear SFP ports can be used as additional ports in Standalone Mode, or, 2 rear HiStack ports delivering up to 10Gbps (FDX) of Stackable Chassis throughput per switch in Stacking Mode (future)
- Fanless operation
- System CPU speed: 400MHz
- System memory: 32MB Flash, 128MB DRAM
- RJ-45 Console port provides industry standard serial port connectivity
- Switch capacity and forwarding rate: 12.8Gbps / 9.5Mpps
- MTBF: 645,510 hrs

**Dimensions:**
- Height: 1U or 44.5mm / 1.75”
- Width: 440mm / 17.5”
- Depth: 280mm / 11”

**Weight:**
- 3.60kg / 8lb

**Power and Thermal:**
- Input voltage: 100 to 240 VAC @ 47 to 63 HZ
- Input current (max): 0.28A@100VAC
- Power consumption: 28.5 Watts max
- Thermal rating (output): 65 BTU/hr max

### ERS 3526T-PWR+

**Switch Details:**
- 24 10/100BASE-TX ports with support for IEEE 802.3af PoE or IEEE 802.3at PoE+, plus 2 combo 10/100/1000BASE-T or SFP ports
- 2 rear SFP ports can be used as additional ports in Standalone Mode, or, 2 rear HiStack ports delivering up to 10Gbps (FDX) of Stackable Chassis throughput per switch in Stacking Mode (future)
- System CPU speed: 400MHz
- System memory: 32MB Flash, 128MB DRAM
- RJ-45 Console port provides industry standard serial port connectivity
- Switch capacity and forwarding rate: 12.8Gbps / 9.5Mpps
- MTBF: 332,778

**Dimensions:**
- Height: 1U or 44.5mm / 1.75”
- Width: 440mm / 17.5”
- Depth: 280mm / 11”

**Weight:**
- 4.50kg / 10lb

**Power and Thermal:**
- Input voltage: 100 to 240 VAC @ 47 to 63 HZ
- Input current (max): 5.0A@100VAC
- Power consumption: 500Watts max
- Thermal rating (output): 360 BTU/hr max
- Maximum power budget: 370 Watts
ERS 3510GT

| Switch Details: | 8 10/100/1000BASE-T ports with 2 SFP ports  
Fanless operation  
Standalone  
System CPU speed: 400MHz  
System memory: 32MB Flash, 128MB DRAM  
RJ-45 Console port provides industry standard serial port connectivity  
Switch capacity and forwarding rate: 20Gbps / 14.9Mpps  
MTBF: 892,667 hrs |
|---|---|
| Dimensions: | Height: 1U 44.5mm / 1.75”  
Width: 220mm / 8.75”  
Depth 200mm / 8” |
| Weight: | 1.75kg / 3.9lb |
| Power and Thermal: | Input voltage: 100 to 240 VAC@ 47 to 63 HZ  
Input current (max): 0.18A @ 100VAC,  
Power consumption: 18 Watts max  
Thermal rating (output): 61 BTU/hr max |

ERS 3510GT-PWR+

| Switch Details: | 8 10/100/1000BASE-T ports with support for IEEE 802.3af PoE or IEEE 802.3at PoE+ with 2 SFP ports  
Standalone  
Dual power modes - fanless operation in Low Power Budget mode @ 60W max PoE budget, or normal fan operation in High Power Budget mode @ 170W max PoE budget.  
System CPU speed: 400MHz  
System memory: 32MB Flash, 128MB DRAM  
RJ-45 Console port provides industry standard serial port connectivity  
Switch capacity and forwarding rate: 20Gbps / 14.9Mpps  
MTBF: 673,452 hrs |
|---|---|
| Dimensions: | Height: 1U 44.5mm / 1.75”  
Width: 220mm / 8.75”  
Depth 280mm / 11” |
| Weight: | 2.70kg / 6lb |
| Power and Thermal: | Input voltage: 100 to 240 VAC@ 47 to 63 HZ  
Input current (max): 2.1A @ 100VAC  
Power consumption: 210 Watts  
Thermal rating (output): 156 BTU/hr max  
Maximum power budget: 170 Watts |
## ERS 3524GT

| **Switch Details:** | 24 10/100/1000BASE-T ports, with 4 shared SFP ports (combo with ports 21-24)  
2 rear SFP ports can be used as additional ports in Standalone Mode, or, 2 rear HiStack ports delivering up to 10Gbps (FDX) of Stackable Chassis throughput per switch in Stacking Mode (future)  
System CPU speed: 400MHz  
System memory: 32MB Flash, 128MB DRAM  
RJ-45 Console port provides industry standard serial port connectivity  
Switch capacity and forwarding rate: 52Gbps / 38.7Mpps  
MTBF: 657,619 hrs |
| **Dimensions:** | Height: 1U 44.5mm / 1.75”  
Width: 440mm / 17.5”  
Depth 280mm / 11” |
| **Weight:** | 3.55kg / 7.8lb |
| **Power and Thermal:** | Input voltage: 100 to 240 VAC@ 47 to 63 HZ  
Input current (max): 0.28A @ 100VAC  
Power consumption: 28.5 Watts max  
Thermal rating (output): 95 BTU/hr max |

## ERS 3524GT-PWR+

| **Switch Details:** | 24 10/100/1000BASE-T ports with support for IEEE 802.3af PoE or IEEE 802.3at PoE+, with 4 shared SFP ports (combo with ports 21-24)  
2 rear SFP ports can be used as additional ports in Standalone Mode, or, as 2 rear HiStack ports delivering up to 10Gbps (FDX) of Stackable Chassis throughput per switch in Stacking Mode (future)  
System CPU speed: 400MHz  
System memory: 32MB Flash, 128MB DRAM  
RJ-45 Console port provides industry standard serial port connectivity  
Switch capacity and forwarding rate: 52Gbps / 38.7Mpps  
MTBF: 336,357 hrs |
| **Dimensions:** | Height: 1U or 44.5mm / 1.75”  
Width: 440mm / 17.5”  
Depth 280mm / 11” |
| **Weight:** | 4.61kg / 10.2lb |
| **Power and Thermal:** | Input voltage: 100 to 240 VAC@ 47 to 63 HZ  
Input current (max): 5.0A@100VAC  
Power consumption: 500 Watts max  
Thermal rating (output): 357 BTU/hr max  
Maximum power budget: 370 Watts |
## Avaya Ethernet Routing Switch 3500 Series Ordering Information

### ERS 3500 Series Models

<table>
<thead>
<tr>
<th>Model Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AL350011-E6*</td>
<td>ERS 3526T featuring 24 x 10/100Mbps + 2 Combo 10/100/1000Mbps or SFP ports + 2 SFP / 2.5G rear ports. Fanless.</td>
</tr>
<tr>
<td>AL350072-E6*</td>
<td>ERS 3526T-PWR+ featuring 24 x 10/100Mbps PoE ports + 2 Combo 10/100/1000Mbps or SFP ports + 2 SFP / 2.5G rear ports. PoE budget 370W.</td>
</tr>
<tr>
<td>AL350074-E6*</td>
<td>ERS 3510GT featuring 8 x 10/100/1000Mbps + 2 SFP ports. Standalone. Fanless.</td>
</tr>
<tr>
<td>AL350076-E6*</td>
<td>ERS 3510GT-PWR+ featuring 8 x 10/100/1000Mbps PoE+ ports + 2 SFP ports. Standalone. Fanless mode @ 60W PoE budget, Fan operation mode @ 170W PoE budget.</td>
</tr>
<tr>
<td>AL350075-E6*</td>
<td>ERS 3524GT featuring 24 x 10/100/1000Mbps with 4 shared SFP ports (combo with ports 21-24) + 2 SFP / 2.5G rear ports.</td>
</tr>
<tr>
<td>AL350071-E6*</td>
<td>ERS 3524GT-PWR+ featuring 24 x 10/100/1000Mbps PoE+ ports with 4 shared SFP ports (combo with ports 21-24) + 2 SFP / 2.5G rear ports. PoE budget 370W.</td>
</tr>
</tbody>
</table>

### Notes:
- Each switch ships with Base software license.
- Stacking cables are not included and must be ordered separately for ERS 3500 24-port models.
- The seventh character (?) of the order number must be replaced with the proper letter to indicate desired product nationalization.

### ERS 3500 Stacking Cables

<table>
<thead>
<tr>
<th>Model Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AL3518001-E6</td>
<td>ERS 3500 46cm Stack Cable</td>
</tr>
<tr>
<td>AL3518002-E6</td>
<td>ERS 3500 1.5m Stack Cable</td>
</tr>
<tr>
<td>AL3518003-E6</td>
<td>ERS 3500 3M Stack Cable</td>
</tr>
</tbody>
</table>

### ERS 3500 Series Accessories

<table>
<thead>
<tr>
<th>Model Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AL3511001-E6</td>
<td>Standard set of 19” rack mount brackets - spare</td>
</tr>
<tr>
<td>AL3511002-E6</td>
<td>Optional accessory kit for joining two ERS 3510GT / ERS 3510GT-PWR+ switches together (side-by-side) to mount in a 19” rack.</td>
</tr>
<tr>
<td>AL3511003-E6</td>
<td>Optional accessory kit for mounting one ERS 3510GT or ERS 3510GT-PWR+ switch in a 19” rack.</td>
</tr>
</tbody>
</table>

### Technical Specifications

#### Avaya Ethernet Routing Switch 3500 Standards Compliance

<table>
<thead>
<tr>
<th>Standard</th>
<th>Compliance</th>
</tr>
</thead>
<tbody>
<tr>
<td>IEEE 802.1AB Link Layer Discovery Protocol (LLDP) and LLDP-Media Endpoint Discovery (LLDP-MED)</td>
<td></td>
</tr>
<tr>
<td>IEEE 802.1Q VLANs</td>
<td></td>
</tr>
<tr>
<td>IEEE 802.1p Priority Queues</td>
<td></td>
</tr>
<tr>
<td>IEEE 802.1D Spanning Tree</td>
<td></td>
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<tr>
<td>IEEE 802.1w Rapid Spanning Tree</td>
<td></td>
</tr>
<tr>
<td>IEEE 802.1x Multiple Spanning Tree Groups</td>
<td></td>
</tr>
<tr>
<td>IEEE 802.1X Ethernet Authentication Protocol (EAP)</td>
<td></td>
</tr>
<tr>
<td>IEEE 802.3 10BASE-T/ 100BASE-TX</td>
<td></td>
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<tr>
<td>IEEE 802.3u 100BASE-T (ANSI) Auto-Negotiation</td>
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<tr>
<td>IEEE 802.3x Pause Frames / Flow Control</td>
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<tr>
<td>IEEE 802.3z 1000BASE-X</td>
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<tr>
<td>IEEE 802.3ab 1000BASE-T</td>
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<tr>
<td>IEEE 802.3ad Link Aggregation Control Protocol (LACP)</td>
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<tr>
<td>IEEE 802.3af Power over Ethernet – PoE (15.4W)</td>
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<tr>
<td>IEEE 802.3at Power over Ethernet plus – PoE+ (32W)</td>
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<tr>
<td>RFC 783 Trivial File Transfer Protocol (TFTP)</td>
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<tr>
<td>RFC 791/950 Internet Protocol (IP)</td>
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<td>RFC 792 Internet Control Message Protocol (ICMP)</td>
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<td>RFC 826 Address Resolution Protocol (ARP)</td>
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<tr>
<td>RFC 854 Telnet Server and Client</td>
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<td>RFC 951 / 1542 BOOTP</td>
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<td>RFC 911 Internet Group Management Protocol v1</td>
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<td>RFC 1213 MIB-II</td>
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<td>RFC 1271 / 1757 / 2819 RMON</td>
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<tr>
<td>RFC 1361 / 1769 Simple Network Time Protocol (SNTP)</td>
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<td>RFC 1493 Bridge MIB</td>
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<td>RFC 1573 / 2863 Interface MIB</td>
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<tr>
<td>RFC 1643 / 2665 Ethernet MIB</td>
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</tbody>
</table>

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General Performance
Switch Fabric performance: 12.8Gbps to 52Gbps
Frame forwarding rate: 9.5 to 38.7Mpps
Latency (64 byte packet LIFO): 2.4 to 3.6 microseconds (GE ports all models) and 7.9 microseconds (FE ports on the ERS 3526T/ERS 3526T-PWR+)
Frame length: 1522 bytes (including Q tag)
Jumbo Frame support: up to 9216 octets
MLT / 802.3ad LACP: 6 groups with 4 active trunks
Concurrently configured VLANs: 256
Egress queues: 4
Multiple Spanning Tree Groups: 8
MAC Address: up to 16,000
DHCP Snooping: up to 512 entries
802.1X Clients per port: 32
ARP Entries: up to 512
IP Interfaces: up to 32
RMON entries per port: 4 groups
ADAC (IP Phones): 32 per port
QoS filters per precedence: 256
QoS precedence: 4
QoS filters per switch: 1024

Pluggable Interfaces
100BASE-FX SFP up to 2km reach over MMF (Duplex LC)
1000BASE-T SFP up to 100m over CAT5E or better UTP Cable (RJ-45)
1000BASE-SX SFP up to 550m reach on MMF (Duplex LC)
1000BASE-LX SFP up to 550m reach on MMF, and up to 10 km on SMF (Duplex LC)
1000BASE-XD CDWM SFP up to 40 km reach on SMF (Duplex LC)
1000BASE-ZX CDWM SFP up to 70 km reach on SMF (Duplex LC)
1000BASE-EX SFP up to 120 km reach on SMF (Duplex LC)
1000BASE-BX SFP up to 10 and 40 km reach variants on SMF (LC)

Environmental Specifications
• Operating temperature: 32° and 122° F (0° and 50° C)
• Operating altitude: 10,000 ft.
• Storage temperature: -40C to 70C
• Storage altitude: 10,000 ft

Safety Agency Approvals
• IEC 60950 International CB Certification
• EN 60950 European Certification
• UL60950 US certification
• CSA22.2, #60950 Canadian Certification
• NOM Mexican Certification

Electromagnetic Emissions and Immunity
• CISPR22, Class A/CISPR24 International
• EN55022, Class A/EN55024 European
• FCC, Part 15, Class A US Certification
• ICES-003, Class A Canadian Certification
• AN/NZS 3548 Australian/NZ Certification
• BSMI - Taiwan - CNS 13438, Class A
• MIC - Korea - MIC, No. 2001-116
• VCCI Class A Japanese Certification

2 Based on Avaya testing