

Avaya Ethernet Routing Switch 3500 Series Quick Install Guide

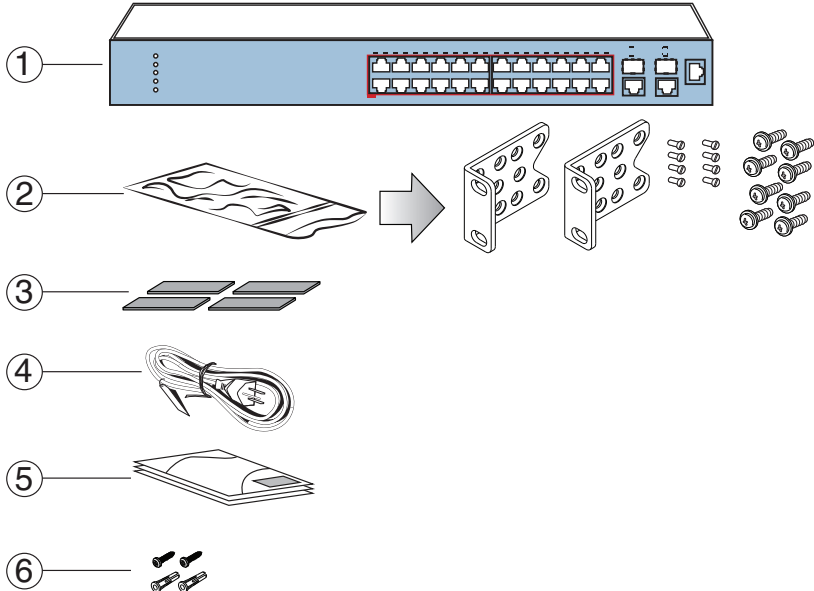
All documents referenced in this Quick Installation Guide can be downloaded at www.avaya.com.

Note that Avaya ERS 3500 hardware can vary in size and shape. Your switch may appear different than the figures shown in this guide.

Steps 1 → 3 Before you start

1. Confirm that you have the tools and package contents as follows:

Tools Required:
Phillips #2 screwdriver
Package Contents:



- Avaya Ethernet Routing Switch 3500 Series
- Rack-mounting hardware that includes: (not applicable to ERS 3510GT or ERS 3510GT-PWR+)
 - Rack-mount brackets (2)
 - Screws to attach brackets to the switch (8)
 - Screws to attach the switch to the equipment rack (2x4)
- Rubber footpads (ERS 3510GT and ERS 3510GT-PWR+ only)
- AC power cord
- Base Software License Kit
- Screws (2) and wall anchors (2) for wall mounting (ERS 3510GT and ERS 3510GT-PWR+ only)

Depending on your installation, the following accessory kits may be required:

- One 3510-Pair Rack Mount Kit — this accessory kit is used to connect two ERS 3510GT or ERS 3510GT-PWR+ switches together side-by-side and mount them in a 19 inch rack. The kit includes all necessary brackets and fasteners and must be ordered separately (Order Code AL3511002-E6)
- One Spare Rack Mount Kit — this kit can be used to mount an ERS 3510GT or ERS 3510GT-PWR+ under a desk or on to another surface. This kit is also used as a replacement rack mount kit for ERS 3524GT, ERS 3524GT-PWR+, ERS 3526T or ERS 3526T-PWR+ systems (Order Code AL3511001-E6)

Note: There is a Kensington Lock slot on the back of each switch. Carefully remove the plastic plug from the hole if you need to use the K-Lock slot of an ERS 3510GT or ERS 3510GT-PWR+ unit.

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2. (Optional) Prepare the rack:

- Provide the equivalent of one rack of vertical space for each switch in an EIA or IEC-standard 19-inch (48.2-centimeter) equipment rack.
- Bolt the rack to the floor and brace it, if necessary.
- Ground the rack to the same grounding electrode used by the power service in the area. The ground path must be permanent and must not exceed 1 Ohm of resistance from the rack to the grounding electrode. AVAYA recommends using a filter or surge suppressor.

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3. When you install the switch into a network, ensure you use the following cables:
- Category 5e cabling minimum for 1000 Mbps operation
 - RJ-45 Console port cables as follows:

PEC code	Short Description	
AL2011020-E6	Avaya DB-9 RED	AVAYA RED DB-9 FEMALE TO RJ-45 ADAPTOR. Note: converts DB-9 MALE to RJ-45 serial port. Can be used for PC or device with DB-9 MALE console port. Can be used with Category 5 RJ-45 straight cable to provide console connection.
AL2011021-E6	Avaya DB-9 BLUE	AVAYA BLUE DB-9 MALE TO RJ-45 ADAPTOR. Note: converts DB-9 FEMALE to RJ-45 serial port. Can be used to convert DB-9 of AL2011013-E6 console cable to RJ-45. A Category 5 RJ-45 straight cable can then connect to RJ-45 console port.
AL2011022-E6	Avaya RJ-45 CONSOLE CABLE	AVAYA RJ-45/DB-9 INTEGRATED CONSOLE CABLE Note: 1.5m cable with DB-9 Female for PC and RJ-45 for device console port.

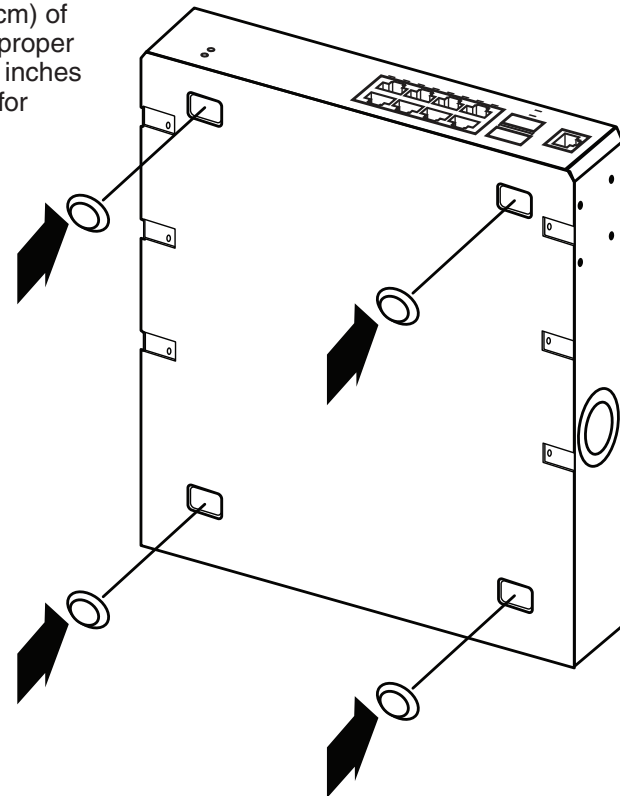
Steps 4 → 6 Mounting Options

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Table/Shelf mounting

4. If you are mounting the ERS 3510GT or ERS 3510GT-PWR+ switch on a table or shelf, attach the rubber feet to the device as indicated.

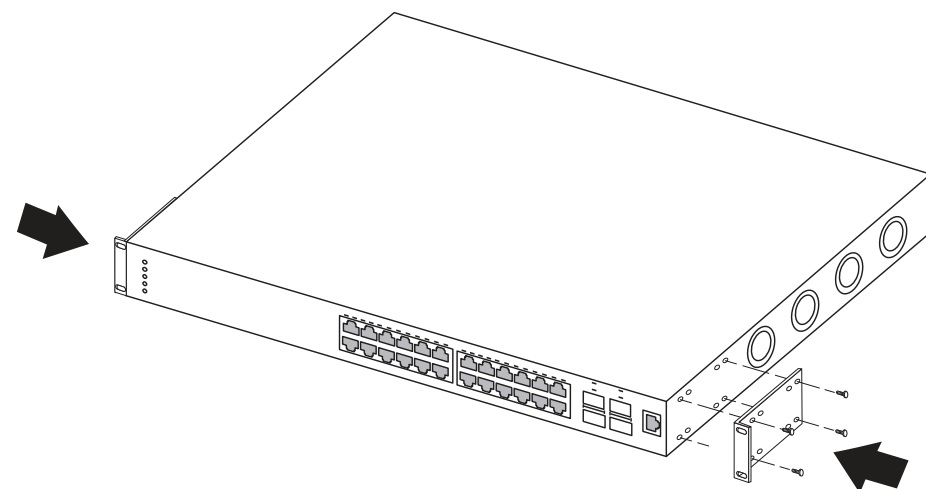
- Set the device on a flat surface near an AC power source, making sure there is at least 2 inches (5.1 cm) of space on all sides for proper air flow, and at least 5 inches (12.7 cm) at the back for power cord clearance.



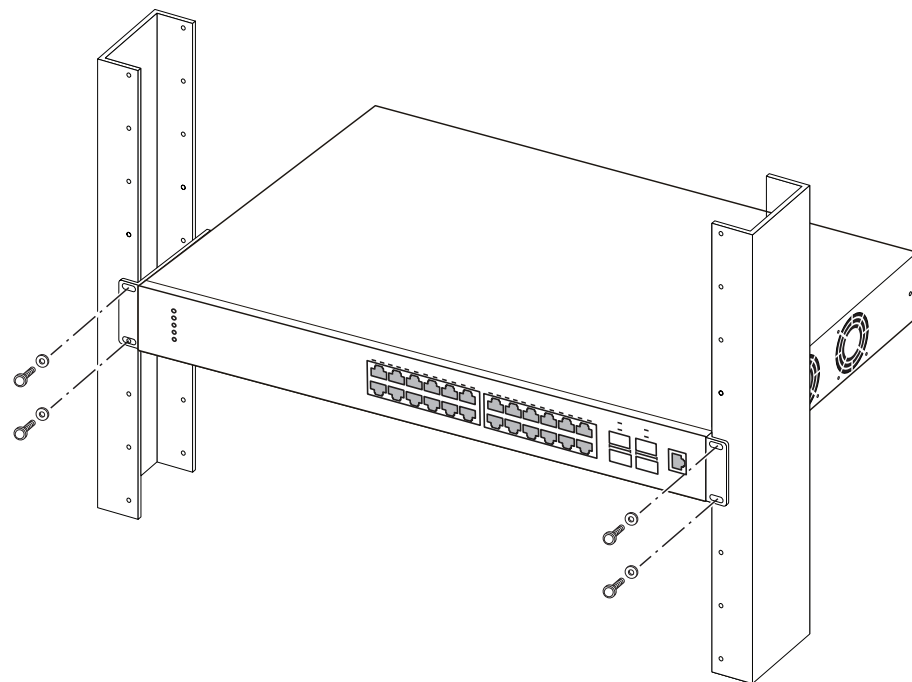
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Rack mounting

5. If you are mounting the ERS 3524GT, ERS 3524GT-PWR+, ERS 3526T, or ERS 3526T-PWR+ switch in an equipment rack, attach the rack mount brackets to each side of the device using the screws provided. Choose the appropriate rack-mount for attaching the switch to your data or phone rack.



- Slide the switch into the rack. Insert and tighten the rack-mount screws.



To rack mount a pair of ERS 3510GT or ERS 3510GT-PWR+ switches:

Use the 3510-Pair Rack Mount Accessory Kit (AL3511002-E6) to mount two ERS 3510GT or ERS 3510GT-PWR+ switches together side-by-side in a standard 19" rack. The kit contains instructions and all hardware to join any combination of two ERS 3510GT switches side by side, then to attach included rack mount ears for mounting in a 19" rack.

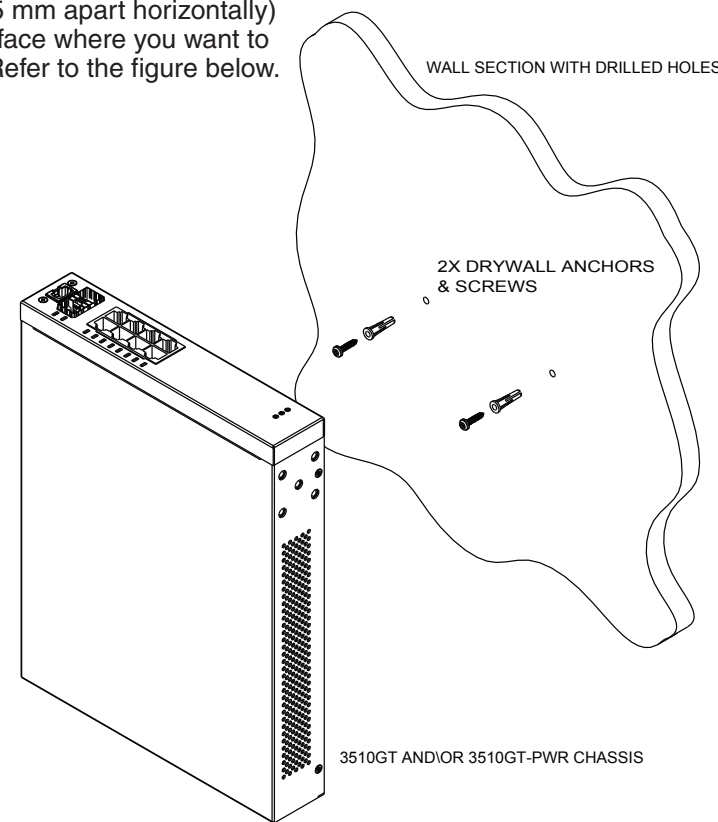
Note: If you are mounting a mix of ERS 3510GT and ERS 3510GT-PWR+ units side by side, ensure that the ERS 3510GT-PWR+ unit is mounted on the RIGHT side for adequate airflow.

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Wall mounting

6. To wall mount an ERS 3510GT or ERS 3510GT-PWR+ unit:

- Drill two 4.5 mm diameter holes (separated 108.5 mm apart horizontally) in the wall or surface where you want to mount the unit. Refer to the figure below.

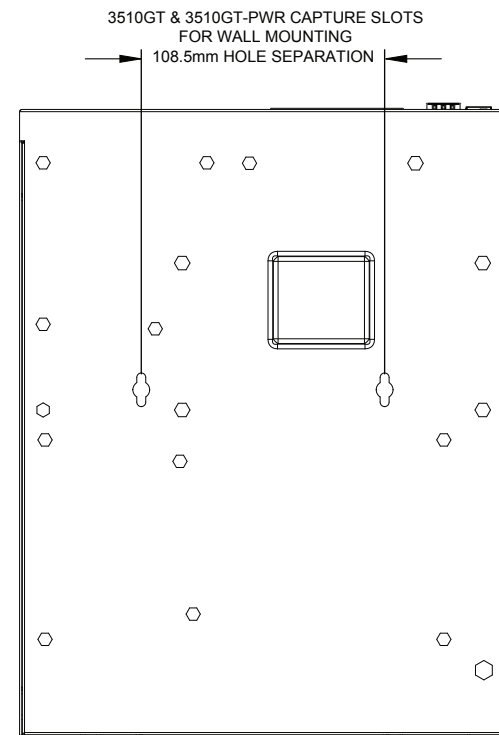


- Press fit the plastic body of conical drywall anchors into each of the drilled holes.

- Install a tapping screen into each anchor and fully set it to expand the anchor into the wall or surface.

- Back the screw out from the fully seated position by 1.5 mm.

- Slip the ERS 3510GT or ERS 3510GT-PWR+ chassis capture slots over the exposed screw heads to hang it from the wall or surface.



Steps 7 → 10 Powering Up

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7. Connect the AC power cord to the back of the switch, and then plug the other end of the cord into an AC power outlet.

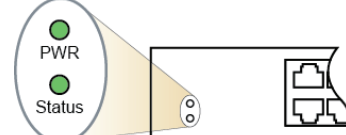


Warning: You must use a power cord set approved for the 3500 Series switch and the power receptacle type in your country.

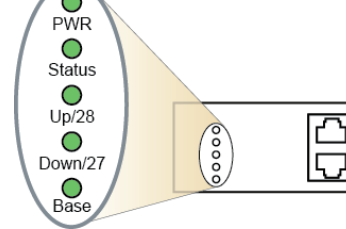
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8. Check the front-panel LEDs as the device powers on to be sure the PWR LED is lit. If not, check that the power cord is plugged in correctly.

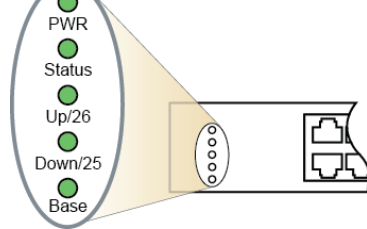
Front Panel 3510GT and 3510GT-PWR+



Front Panel 3526GT & 3526GT-PWR+



Front Panel 3524GT & 3524GT-PWR+

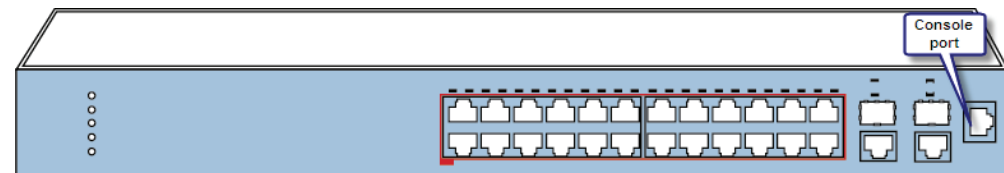


The 3500 Series switches begin switching data as soon as you attach network devices and connect the switch to the power supply.

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Console Port pin assignments

9. The console port is the RJ-45 port shown with a blue border outline on the front of your ERS 3500 Series switch (note orientation). The port is labeled console, and can be used to establish a management terminal connection to the switch.



You can use an RJ-45 to DB-9 cable, or a DB-9 to RJ-45 adapter to connect the switch console port to your management terminal. The maximum length of a console cable is 25 feet (8.3 meters). The following table describes the RJ-45 console port pin-out information. You can use the pin-out information to verify or create a console cable for use with your maintenance terminal.

RJ - 45 Jack	Name	Requirement	RJ - 45 8-Pin Female Jack
1	RTS (Ready To Send)	Optional - can swap or link with pin 8 Optional	
2	DTR (Data Terminal Ready)	Optional	
3	TXD (Transmit Data)	Mandatory	
4	DCD (Carrier Detect)	Optional	
5	GND (Ground)	Mandatory	
6	RXD (Receive Data)	Mandatory	
7	DSR (Data Set Ready)	Optional	
8	CTS (Clear To Send)	Optional - can swap or link with pin1	

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Setting IP parameters using the console port and CLI Quickstart

10. To set IP parameters using the console port and CLI Quickstart, perform the following tasks:

- Connect a terminal to the console port of the switch. Any terminal or PC with an appropriate terminal emulator can be used as the management station. The **Terminal emulation settings table below** lists the parameters that must be used with any terminal emulation software used to connect to the switch.

Terminal emulation settings

Property	Value
Baud Rate	9600 bps
Data Bits	8
Stop Bits	1
Parity	None
Flow Control	None

To connect to the switch console port, you require a console cable with an RJ-45 connector to match the console port on the switch.

- Set the terminal protocol on the terminal or terminal emulation program to VT100 and VT100/ANSI.
- Connect to the switch using the terminal or terminal emulation application.
- The Avaya switch banner appears when you connect to the switch through the Console port. Enter Ctrl+Y and type the following CLI commands:
 - enable
 - install

The CLI Quickstart welcome screen helps you to enter the information requested at each prompt.

CLI Quickstart welcome screen

```
#####
Welcome to the 3526T-PWR+ setup utility.
You will be requested to provide the switch basic connectivity
settings.
After entering the requested info, the configuration will be
applied and stored into the switch NVRAM.

Once the basic connectivity settings are applied, additional
configuration can be done using the available management inter-
faces.
Use Ctrl+C to abort the configuration at any time.

#####

Please provide the in-band IP Address[0.0.0.0]:
Please provide the in-band sub-net mask[0.0.0.0]:
Please provide the Default Gateway[0.0.0.0]:
Please provide the Read-Only Community String[*****]:
Please provide the Read-Write Community String[*****]:
Please provide the Quick Start VLAN <1-4094> [1]:
Please provide the in-band IPv6 Address/prefix length[:/0]:
Please provide the in-band IPv6 Default Gateway[:]:

#####

Basic switch parameters have now been configured and saved.

#####
```

You are now ready to use the ERS 3500 Series switch in your network installation.

Mean Time Between Failure (MTBF) for ERS 3500 Series

Model	Estimated MTBF Hours
ERS 3510	892,667
ERS 3510-PWR+	673,542
ERS 3524	657,619
ERS 3524-PWR+	336,357
ERS 3526	645,510
ERS 3526-PWR+	332,778

AVAYA

NN47203-300-01.01 (700503194 Rev.0.1)
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