ERICSSON

AP 6321 Quick Install Guide

QUICK GUIDE

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1 Getting Started

1.1 Package Contents

AP 6321

Ethernet Cable   Fastening Hardware   Appliance Feet

Quick Guide   Screw Hole Template

Note: Ericsson also offers the following options, which are ordered and shipped separately:

- AC Power Adapter

- Ceiling Tile Hanger Kit

- Passive PoE Injector

Contact your Ericsson representative for more information.

1.2 Unit Description

1.2.1 Power Connector

The unit does not have a power switch. It is powered on when connected to a power source. The power adapter, ordered and shipped separately, automatically adjusts to any voltage between 100~240 volts at 50 Hz or 60 Hz. The unit draws up to 0.43 A at 48 V DC (20.9 W).

Warning!

The AC Power Adapter relies on the rated fuse or circuit breaker of the wall outlet (15 A in North America, 10 A in Europe).

Caution!

Use ONLY the Ericsson power adapter for the AP 6321. Use of any other power adapter can damage the unit and voids the Ericsson product warranty.

1.2.2 Internet Port

Table 1 shows the power consumption for the *Internet* port.

Table 1   Power Consumption Table

State	*Internet* Port Only	*Internet* Port and One *LAN* Port	*Internet* Port and Four *LAN* Ports
Idle	5.6 W	6.3 W	8.4 W
Medium Traffic	12 W	12.7 W	14.9 W
High Traffic	16 W	16.7 W	18.9 W
Maximum Traffic	18 W	18.7 W	20.9 W

The PoE switch or power injector must meet local and national regulatory requirements.

802.3at Power Source Equipment (PSE) Specification:

- 50.0 to 57 V DC, with 30 W output power from the PSE

802.3at Powered Device (PD) Specification:

- 42.5 to 57 V DC at the PD, with 25.5 W maximum input power to the PD

802.3at Cable Specification:

- 100 m maximum length

- Maximum cable pair resistance of 12.5 Ohms, satisfied by using CAT5 or CAT5e as specified by ANSI/TIA/EIA-568 or Class D as specified by ISO/IEC 11801:1995

- 600 mA maximum current per pair

1.2.3 Reset Button

This button is used to restore the factory default configuration using a paperclip or pen tip. Hold down the button for 15 seconds or more, until all of the indicators turn off, to remove any configuration changes and restore the unit to the factory default configuration.

2   Installing the AP 6321

2.1   Step 1—Select Location

Choose a proper place for the unit. In general, the best location is at the center of the intended wireless coverage area, within line of sight of all wireless devices. For optimum performance, consider these guidelines:

- Mount the unit as high as possible above any obstructions in the coverage area.

- Avoid mounting next to or near building support columns or other obstructions that can cause reduced signal or null zones in parts of the coverage area.

- Mount away from any signal absorbing or reflecting structures (such as those containing metal).

The unit can be mounted on any horizontal surface, on a wall or from a hanging ceiling.

The unit is UL2043 Certified for Plenum mounting. Installers must use Plenum rated Ethernet cable for installations in the environmental air space of a building, such as above suspended ceilings. Installers must follow local and national codes for above ceiling installations.

Warning!

Do not install the unit in any areas where blasting (blasting caps, radio controlled equipment) or explosive gases can be present.

Warning!

The unit, its AC power adapter, and its cables are not designed for outdoor use. They must be located indoors.

2.2 Step 2—Mount on a Flat Surface

Mount the unit only on a flat surface that is at least 1/2-inch (12.7-mm) plywood or the equivalent. To mount the unit on a ceiling or a wall, use one of the following options:

- To mount the unit on a wall or on a ceiling that does not have T-rails, use the pan head Phillips screws provided with the unit.

- To mount the unit on a ceiling that has T-rails, use either a T-rail mounting bracket or the pan head Phillips screws provided with the unit. T-rail mounting brackets are included in the Ceiling Tile Hanger Kit (BNCKG0158 or INE 105 3079), which can be ordered separately. The Ceiling Tile Hanger Kit includes five T-rail mounting brackets and five sets of four appliance feet.

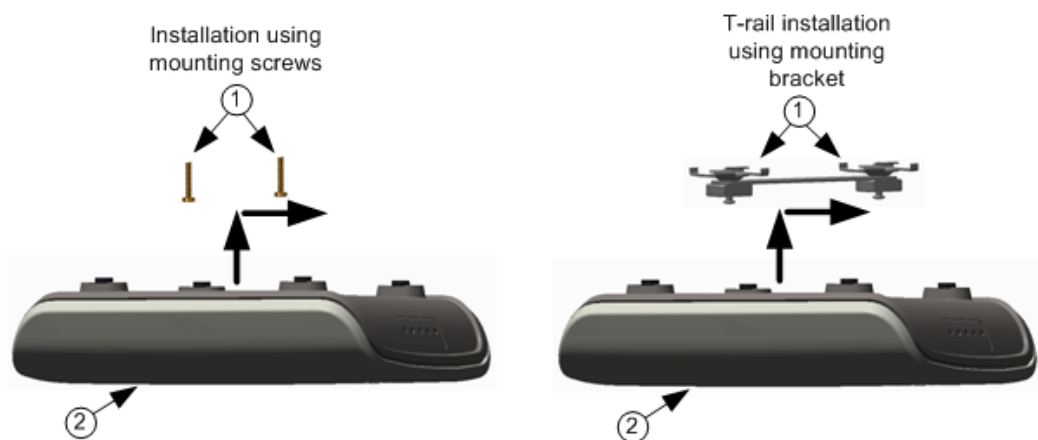To mount the unit using the mounting screws provided with the unit, do the following:

1. Attach the mounting screws to a ceiling or wall.

   - Use the included Screw Hole Template as a guide.

   - For concrete or brick walls, drill holes and use the included nylon wall plugs.

   - For T-rail installations, drill 3/32-inch (2.4-mm) pilot holes.

   - Leave a 5/16-inch (8-mm) gap so the unit can slide over the screw heads.

2. Attach the appliance feet provided with the unit to the unit.

3. Attach the unit to the mounting screws by doing the following:

   a Line up the two mounting slots on the bottom of the unit with the two mounting screws.

   b Slide the unit across into position so that the mounting screws support the unit.

   c Adjust the screw depth as required so that there is a snug fit between the unit and the mounting screws.

To mount the unit using a T-rail mounting bracket, do the following:

1. Clip the T-rail mounting bracket to a T-rail.

2. Attach the correct appliance feet to the unit:

   - For a suspended ceiling with recessed T-rails (this is a ceiling in which the tiles hang below the T-rails), attach the appliance feet provided with the unit.

- For a suspended ceiling in which the tiles are flush with the T-rails, attach the appliance feet provided in the Ceiling Tile Hanger Kit.

3. Attach the unit to the mounting points on the mounting bracket by doing the following:

   a   Line up the two mounting slots on the bottom of the unit with the two mounting points on the mounting bracket.

   b   Slide the unit across into position so that the mounting points support the unit.

2.3   Step 3—Connect and Power On

The AP 6321 can get its operating power directly from either of the following sources:

- An AC wall outlet

- The *Internet* port when connected to a device that provides IEEE 802.3at compliant Power over Ethernet (PoE)

If the AP 6321 is connected to both a PoE source device and an AC power source, AC is disabled.
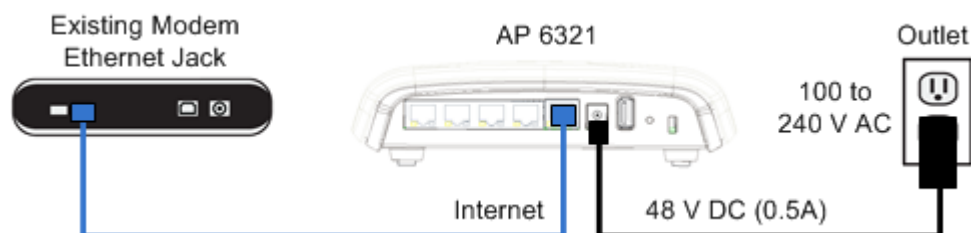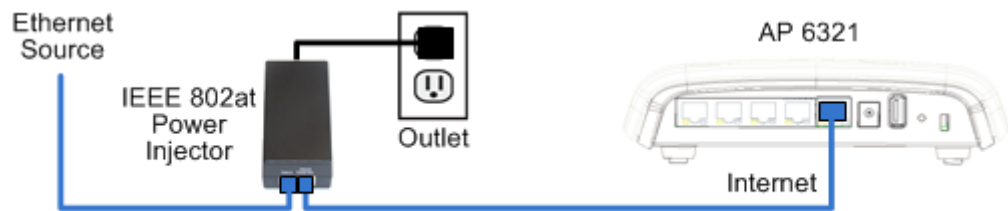

Figure 1   Wall Outlet Power

⚠ Caution!

Use ONLY the Ericsson power adapter for the AP 6321. Use of any other power adapter can damage the unit and voids the Ericsson product warranty.

Note: Inserting the PoE cable into a LAN port does not harm the unit.

Figure 2   Power over Ethernet

⚠ Warning!

If PoE is used, the AP 6321 must be connected to a power source that complies with IEEE 802.3at, or to an IEC/EN 60950-1 compliant power limited source.

2.4   Step 4—Check Indicators

All indicators are illuminated for about one to two seconds when the unit is powered on. After powering on, wait 2 minutes and check that the indicators on the unit match the indicators in Table 2.
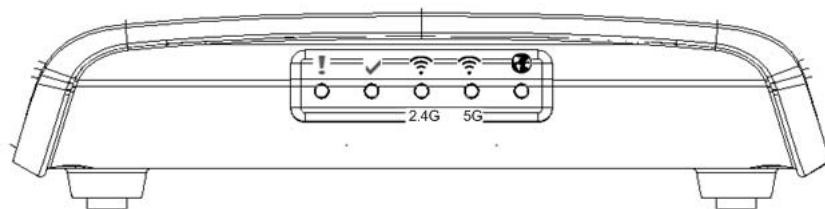

Table 2   Indicator Behavior

Indicator	Behavior
❗ (FAULT)	Off

Indicator	Behavior
✔(OPERATIONAL)	Green
2.4G	Green
5G	Green
🌐 (INTERNET)	Green

If the indicator behavior does not match Table 2, refer to the *AP 6321 Technical Description*, *1/1550-LZA 101 822* for detailed indicator descriptions.

2.5 Step 5—Configure Unit

In most cases, the unit configures itself automatically after powering on. To configure the unit manually through its local web interface or Command Line Interface (CLI), refer to the *Access Point User Guide*, *1/1553-LZA 101 806*.