Quick Installation Guide

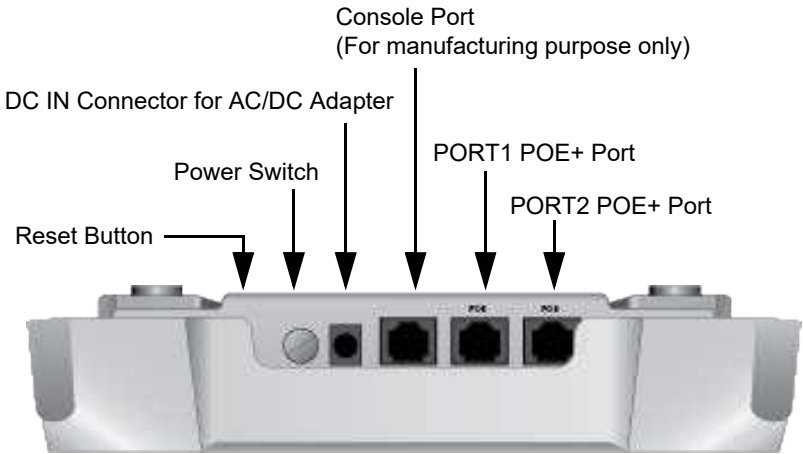**Allied Telesis**

TQ7403 Wireless Access Point

The access point model included in this Quick Installation guide is:

❑   AT-TQ7403

Installation and User's Guides

This document contains an abbreviated version of the installation instructions for the TQ7403 Wireless Access Point. For complete installation and management instructions, see the *TQ7403 Wireless Access Point Installation Guide* and *TQ7403 Management Software User's Guide* on the Allied Telesis web site at **www.alliedtelesis.com/library**.

Physical Description

Console Port
(For manufacturing purpose only)

DC IN Connector for AC/DC Adapter

Power Switch

PORT1 POE+ Port

PORT2 POE+ Port

Reset Button

Safety Precautions and Site Requirements

Review the safety precautions and site requirements in the *TQ7403 Wireless Access Point Installation Guide* before installing the device.
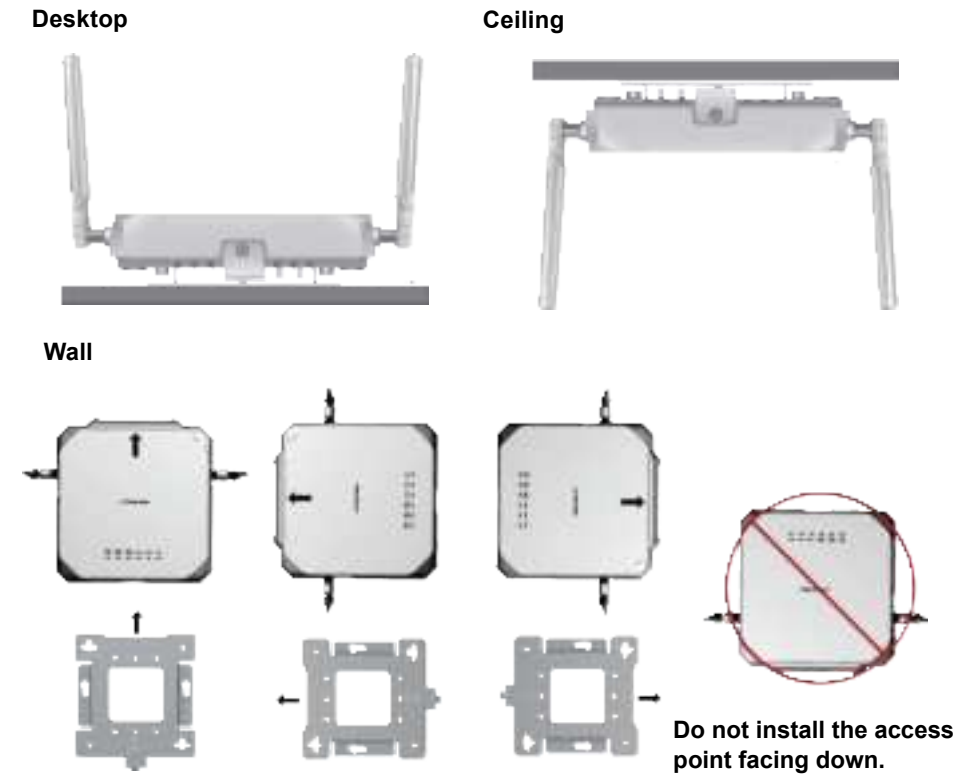
Package Contents

Two 2.4GHz/5GHz dual band external antennas	
One Mounting Bracket	
Two M5 x 4.5 mm, Pan-head Screws	

If any item is missing or damaged, contact your Allied Telesis sales representative for assistance. Retain the original shipping material to return the unit to Allied Telesis.

613-003247 Rev B

Installation Options

You can install the access point on a desktop, celling, or wall. See the approved and unapproved orientations:

Desktop

Ceiling

Wall

Do not install the access point facing down.

Attaching the External Antenna

1.   Place the access point on a level, secure surface.
2.   Align the antenna to the antenna connector on the side of the access point.

3.   Screw the antenna onto the antenna connector.

4.   Bend the antenna to adjust the position.

5.   Repeat the procedure to attach the other antenna to the other side of the access point.

Pre-fitting the Mounting Bracket

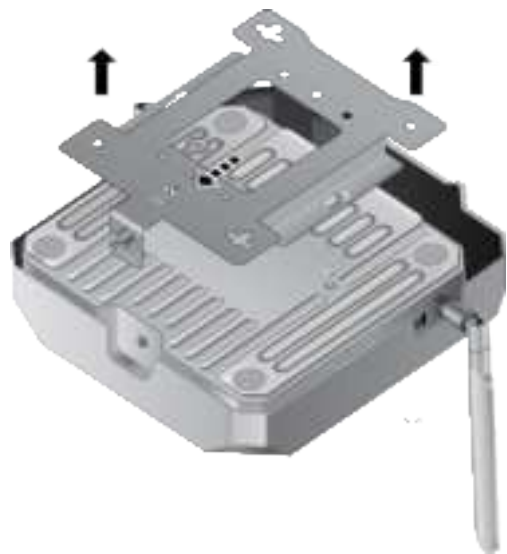Before installing the mounting bracket on a wall or ceiling, pre-fit the bracket to the access point.

1.   Install the two screws (provided) fully into the bottom panel of the access point.

The screw collar provides the proper spacing for the mounting bracket beneath the screw head.

Collar

2.   Make sure that the mounting bracket fits to the access point by sliding the bracket beneath the screws.
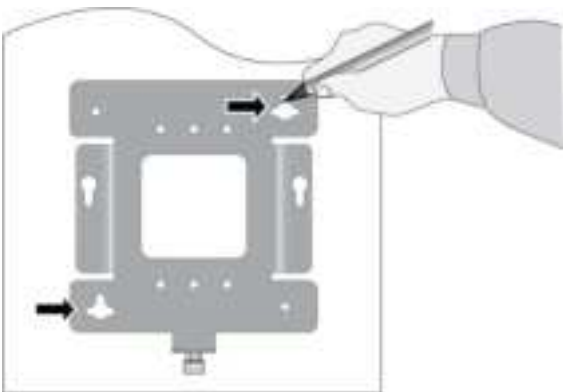
3. Slide the mounting bracket forward and remove it from the access point.

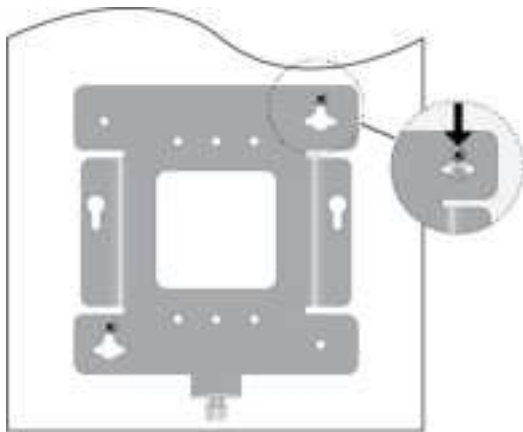## Installing the Mounting Bracket on a Wall or Ceiling

1. Choose a location and orientation for the access point on the wall or ceiling.
2. Position the mounting bracket at the selected location for the access point. With a pencil, mark the two key-hole slots on the wall or ceiling.

3. If necessary, pre-drill on the wall or ceiling the two marked locations of the key-hole slots for the screws.
4. Install two M4 screws and anchors (if required) into the wall or ceiling. Leave the screws loose enough so that you can slide the bracket under the screw heads.

   For wooden walls or ceiling, Allied Telesis recommends M4 25 mm flat-head wood screws and anchors (if required). The screws and anchors are not provided.
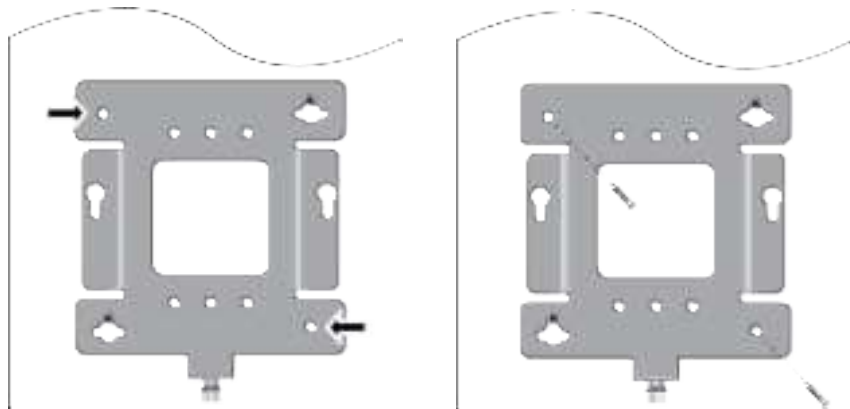

5. Install the openings of the bracket key-hole slots to the two screw heads and slide the bracket into the narrow end of the key-hole slot openings.

6. Tighten the screws snugly onto the bracket.

7. To secure the mounting bracket, pre-drill holes through the two bracket mounting holes opposite the key-hole slots.
8. Install and tighten two M4 screws (not provided).

Cabling the Wireless Access Point

Perform the following procedure to cable the Ethernet LAN port and to power the device:

1. Connect an Ethernet cable to PORT1 (POE).

2. Connect the other end of the Ethernet cable to a network device, such as a switch or router.

> **Note**
>
> When PORT1 is connected to PoE+ power sourcing equipment, the TQ7403 access point powers on and begins to initialize its management software.

3. To use PORT2 in the static LAG or Cascade mode, connect a second Ethernet cable to PORT2.

4. Connect the other end of a network device.

   To use PORT2 as a static LAG with PORT1, connect PORT2 to the same switch or router as PORT1. To use it in the Cascade mode, connect PORT2 to a different device.

> **Note**
>
> The default setting for PORT2 is disabled. To enable the port, use the web management interface. For more details, see the *TQ7403 Management Software User's Guide.*

> **Note**
>
> Do not enable the PORT2 until you have configured the other network device for the static LAG.

Powering the Wireless Access Point

The access point can be powered with PoE+ on the PORT1 or/and PORT2 ports, an external AC/DC power adapter, or both. The access point that is powered by both PoE and an external power adapter uses the adapter as its primary power and PoE as redundant power.

Allied Telesis recommends the PWRADP-01 (DA-48Z12) AC/DC Power Adapter. The power adapter should be ordered separately.

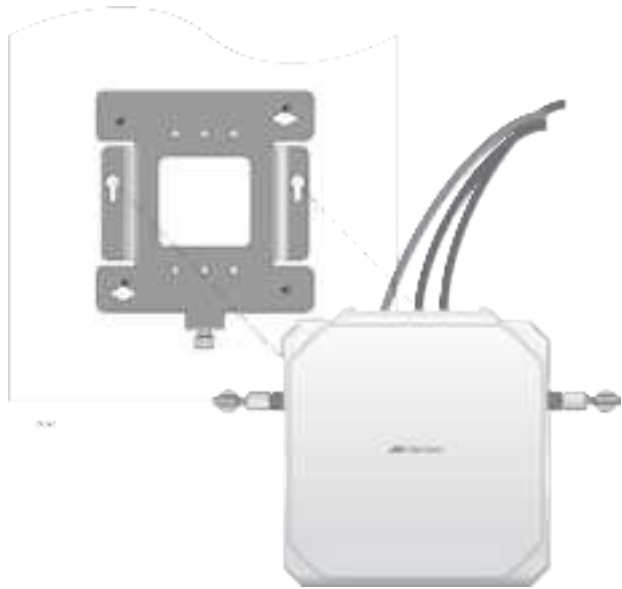1. Plug the DC connector into the DC IN jack on the access point.

2. Connect the power adapter into an appropriate AC power source.
3. Turn on the Power Switch on the panel.

> **Note**
>
> The power switch on the access point controls power from the AC power supply. It does not control PoE+ on PORT1 and PORT2.

Installing the Access Point on the Wall Mounting Bracket

1. Align the bottom of the access point over the bracket so that the two screws on the bottom of the device fit into the bracket keyholes.

2. Slide the access point forward until its screws are seated in the bracket keyhole slots and the bracket thumbscrew is aligned with the screw hole on the front panel.
3. Tighten the thumbscrew to secure the access point to the wall mounting bracket.

4. Place the Ethernet cable(s) and power cable (if any) along the cable guides inside of the top cover in the cable hiding space.

Starting the Initial Management Session

The access point firmware includes a DHCP client. The default setting for the client is enabled. When you power on the access point for the first time, it queries the subnet on PORT1 for a DHCP server. If a DHCP server responds to its query, the unit uses the IP address the server assigns to it.

If there is no DHCP server, the access point uses the default IP address:

192.168.1.230.

To start the initial management session, perform the following procedure:

1. Start the web browser on your management workstation.
2. Enter the IP address of the wireless access point in the URL field of the web browser. The address is one of the following:
   - ❐ If your network does not have a DHCP server, enter the default address 192.168.1.230.
   - ❐ If your network has a DHCP server, enter the IP address the DHCP server assigned to the access point.

   The wireless access point displays the logon prompt.

3. Enter "manager" for the username and "friend" for the password. The username and password are case-sensitive.

Setting the Country Setting

The non-US model of this product has a country code setting that must be set during the initial management session of the unit. The setting ensures that the unit operates in compliance with the laws and regulations of your country or region.

The country code for the US model is preset and cannot be changed. Per FCC regulations, the country code setting for all WiFi products marketed in the US must be fixed to US operational channels only.

LEDs

The top panel LEDs are described in this table.

LED	State	Description
PWR/ SYS	Green	The access point is powered on and operating normally.
	Red	The access point is booting up.
	Blinking Red	The access point is updating its firmware.
	Off	The access point is not receiving power.
PORT1 and PORT2	Green	The port has established a valid link to a network device.
	Blinking Green	The port is transmitting or receiving data.
	OFF	The port has not established a link to a network device.
2.4GHz	Green	The 2.4GHz radio is enabled.
	OFF	The 2.4GHz radio is disabled.
5GHz	Solid Green	The 5GHz radio is enabled.
	OFF	The 5GHz radio is disabled.
6GHz	Solid Green	The 6GHz radio is enabled.
	OFF	The 6GHz radio is disabled.

Optional Patch Antenna and Extension Cable

Allied Telesis offers the optional TQ0301 dual-band patch antenna with four 2-meter long cables. In addition, you can use the TQ0064 10-meter RF extension cable with the TQ0301 antenna. To use the TQ0301 antenna and TQ0064 cable, you must purchase them in addition to the access point.

TQ0301 Dual-band Patch Antenna Package Contents

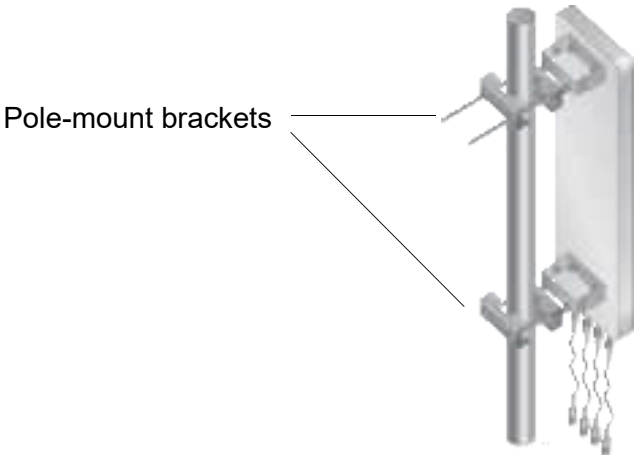|	
Dual-band Patch Antenna (Bracket Assembly attached)	
Four Cables (2 m)	
Four SMA to N jack conversion adapters	
Two metal protective caps	

TQ0064 Extension Cable Package Content

10 meter Cable	

Attaching the Cables to the TQ0301 Patch Antenna

Allied Telesis offers two types of cables for the TQ0301 patch antenna: 2-meter cable that comes with the TQ0301 and TQ0064 10-meter cable.

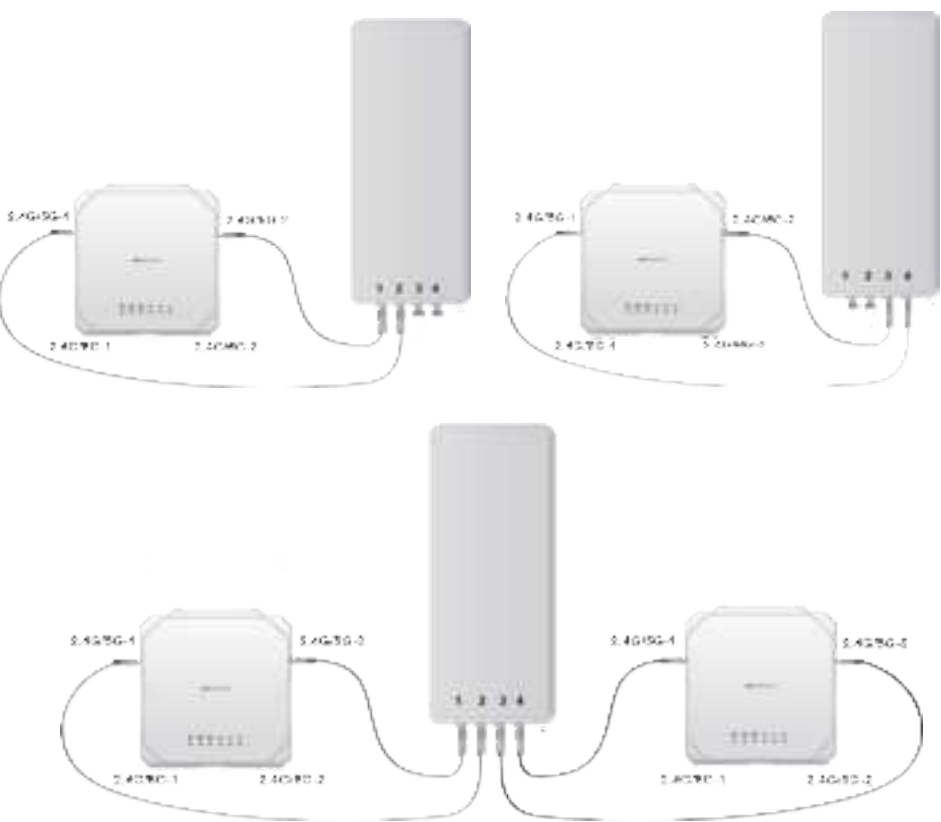### Installing the TQ0301 Patch Antenna on a Pole

The TQ0301 patch antenna can be mounted on a pole with the pole-mount brackets.

Pole-mount brackets

Note

The TQ0301 patch antenna must be installed with the cable connectors facing down.

1. Remove the connector blind caps covering the antenna connectors.
2. Attach the N-Jack adapters to the 2-meter cables.
3. Screw the cables to the antenna connectors.
4. Attach the metal protective cap on unused antenna connector.

Configurations with the TQ0301 Patch Antenna

Attaching the Cable to the Access Point

1. Attach the N-Jack conversion adapter to the connector where the antenna was attached.
2. Screw the cable connector onto the N-Jack conversion adapter.

Product Specifications

The product specifications are listed in the following tables.

Parameter	Specification
Dimensions (W x D x H) without external antennas	200 mm X 210 mm X 45 mm (7.9 in. x 8.3 in. x 1.8 in.)
Dimensions (W x D x H) with external antennas	270 mm X 210 mm X 160mm (11 in. x 8.3 in. x 6.3 in.)
Weight with external antennas	1.2 kg (2.6 lbs)

Parameter	Specification
Operating Temperature	0° C to 50° C (32° F to 122° F)
Storage Temperature	- 25° C to 70° C (- 13° F to 158° F)
Operating Humidity	5% to 90% non-condensing
Storage Humidity	0% to 95% non-condensing
Maximum Operating Altitude	3000 m (9843 ft)

PoE+ Power Spec on LAN Ports	Specification
Maximum Power Consumption	24.1 watts
Rated Voltage	DC 48 V
Rated Current	0.67 A

External AC/DC Power Adapter Spec	Specification
Input Voltage Range	100~240 VAC
Input Frequency	50 - 60 Hz
Rated Output Voltage	+12 VDC
Rated Output Current	4 A
Temperature Ranges	0° C to 50° C (32° F to 122° F)
Maximum Operating Altitude	3000 m (9843 ft)

Safety and Electromagnetic Emissions Certificates

This device complies with Part 15 of FCC Rules, Directive 2014/53/EU issued by the Commission of the European Community, some other safety, electromagnetic emission, and radio certificates.

The operating frequencies and maximum transmission power levels for wireless devices operated in the EU & UK are listed below:

Model: AT-TQ7403							
MHz	2412-2472	2412-2472 (BLE)	2412-2472 (Zigbee)	5150-5250	5250-5350	5470-5725	5925-6425
Beamforming (dBM)	19.99			22.88	22.98	29.95	22.89
Non-Beamforming (dBm)	19.99	12.00	13.19	22.98	22.98	29.95	22.98
* This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body.							

Note

Contact Allied Telesis for the EU conformity statement. To contact Allied Telesis, visit the web site at **www.alliedtelesis.com/contact**.

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