

# TQ2402 GEN2

## WIRELESS ACCESS POINTS

### AT-TQ2402 GEN2

IEEE802.11ax dual-radio 5G/2.4GHz 2x2+2x2 Access Point

### AT-TQm2402 GEN2

IEEE802.11ax dual-radio 5G/2.4GHz 2x2+2x2 Access Point



6007

# Installation Guide

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# Electrical Safety and Emissions Standards

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This product meets the following standards:

- ❑ “Federal Communications Commission Interference Statement”
- ❑ “European Union Restriction of the Use of Certain Hazardous Substances (RoHS) in Electrical and Electronic Equipment” on page 4
- ❑ “Safety and Electromagnetic Emissions” on page 5
- ❑ “Translated Safety Statements” on page 9

## Federal Communications Commission Interference Statement

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### Declaration of Conformity

Manufacturer Name: **Allied Telesis**

Declares that the product: **IEEE802.11ax dual-radio 5G/2.4GHz 2x2+2x2 wireless access points**

Model Number: **AT-TQ2402 GEN2 and AT-TQm2402 GEN2**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



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**Caution**

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. ⚡ E80

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**Avertissement**

Avertissement de la FCC: Les changements ou modifications non expressément approuvés par la partie responsable de la conformité pourraient annuler l'autorité de l'utilisateur à utiliser cet équipement. ⚡ E80

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This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

### **Radiation Exposure Statement:**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. The AT-TQ2402 GEN2 and AT-TQm2402 GEN2 access points should be installed and operated with minimum distance 20 cm between the radiator and your body.

## **European Union Restriction of the Use of Certain Hazardous Substances (RoHS) in Electrical and Electronic Equipment**

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This Allied Telesis RoHS-compliant product conforms to the European Union Restriction of the Use of Certain Hazardous Substances (RoHS) in Electrical and Electronic Equipment. Allied Telesis ensures RoHS conformance by requiring supplier Declarations of Conformity, monitoring incoming materials, and maintaining manufacturing process controls.

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**Note**

For additional regulatory statements, refer to Appendix B, "Regulatory Statements" on page 59.

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# Safety and Electromagnetic Emissions

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## Standard Compliance

- ☐ RoHs compliant

## Wire Communication

- ☐ IEEE 802.1
- ☐ IEEE 802.3
- ☐ IEEE 802.3u
- ☐ IEEE 802.3x
- ☐ IEEE 802.3ab
- ☐ IEEE 802.3af
- ☐ IEEE 802.3ah
- ☐ ITU-T G.993.1

## Wireless Communication

- ☐ IEEE 802.11 DSSS
- ☐ IEEE 802.11a OFDM
- ☐ IEEE 802.11b DSSS/FHSS
- ☐ IEEE 802.11g OFDM
- ☐ ARIB STD-T66
- ☐ ARIB STD-T71

## Safety

- ☐ UL 62368-1
- ☐ TUV T-mark
- ☐ CB62368-1
- ☐ CB60950-1
- ☐ EN 62368-1:2014 / A11:2017
- ☐ UL2043

## Electro Magnetic Interference (EMI)

- ☐ FCC part15 Subpart B/ Class B
- ☐ EN55032 Class B
- ☐ EN60601-1-2
- ☐ EN301489-1/-17

- ❑ VCCI Class B
- ❑ AS/NZS CISPR 32

## **Electro Magnetic Susceptibility - EN55024**

- ❑ IEC 61000-4-2: 2008
- ❑ IEC 61000-4-3: 2006+A1:2007+A2:2010
- ❑ IEC 61000-4-4: 2012
- ❑ IEC 61000-4-5: 2017
- ❑ IEC 61000-4-6: 2013
- ❑ IEC 61000-4-8: 2009
- ❑ IEC 61000-4-11: 2017
- ❑ IEC 61000-3-2: 2014
- ❑ IEC 61000-3-3: 2013

## **FCC**

- ❑ 47 CFR Part15, subpart C
- ❑ 47 CFR Part15, subpart E
- ❑ DFS

## **CE**

- ❑ RED Directive 2014/53/EU
- ❑ EN55032:2015/A11:2020 (CISPR32:2015/COR1:2016)
- ❑ EN 55024:2010+A1:2015
- ❑ EN55035
- ❑ EN 50385
- ❑ EN 301489-1 V 2.2.3
- ❑ EN 301489-17 V 3.2.4
- ❑ EN 300328 V 2.2.2
- ❑ EN 301893 V2.1.1
- ❑ EUROPEAN COUNCIL DIRECTIVE 2014/30/EU
- ❑ DFS
- ❑ IEC/EN60601-1-2
- ❑ UKCA

## **RCM**

- ❑ AS/NZS CISPR 32:2015
- ❑ AS/NZS 4268: 2017

## **IC**

- ☐ ICES-003 issue 7
- ☐ RSS-102
- ☐ RSS-247 issue 2

## **China SRRC**

## **Hong Kong OFCA**

## **India WPC**

## **Indonesia SDPPI**

## **Japan**

- ☐ JGPSSI/JIG level A
- ☐ JATE

## **Malaysia SIRIM**

## **Philippine NTC**

## **Singapore IMDA**



Figure 1. Singapore IMDA Logo

## **South Korea KC**

## **Taiwan**

- ☐ BSM
- ☐ CNS 15936/CNS 15598-1
- ☐ NCC

## **Thailand NBTC**

## **Vietnam**

- ❑ MIC
- ❑ QCVN54:2020
- ❑ QCVN 65:2013

## Translated Safety Statements

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**Important:** The  indicates that a translation of the safety statement is available in a PDF document titled *Translated Safety Statements* on the Allied Telesis website at **[www.alliedtelesis.com/library](http://www.alliedtelesis.com/library)**.

**Remarque:** Les consignes de sécurité portant le symbole  sont traduites dans plusieurs langues dans le document *Translated Safety Statements*, disponible à l'adresse **[www.alliedtelesis.com/library](http://www.alliedtelesis.com/library)**.



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# Preface

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This guide contains the hardware installation instructions for the following access points:

- ❑ TQ2402 GEN2
- ❑ TQm2402 GEN2

This preface contains the following sections:

- ❑ “Safety Symbols Used in this Document” on page 18
- ❑ “Contacting Allied Telesis” on page 19

## Safety Symbols Used in this Document

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This document uses the following conventions.

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**Note**

Notes provide additional information.

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**Caution**

Cautions inform you that performing or omitting a specific action may result in equipment damage or loss of data.

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**Warning**

Warnings inform you that performing or omitting a specific action may result in bodily injury.

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**Warning**

Warnings inform you of hot surfaces.

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## Contacting Allied Telesis

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If you need Allied Telesis technical support, visit  
**[www.alliedtelesis.com/support](http://www.alliedtelesis.com/support)**.



## Chapter 1

# Product Description

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The sections in this chapter describe the hardware components of the TQ2402 GEN2 and TQm2402 GEN2 access points:

- ❑ “Features” on page 22
- ❑ “Hardware Components” on page 23
- ❑ “LAN Port” on page 26
- ❑ “AC Adapter for External Power Supply” on page 28
- ❑ “LEDs” on page 29

## Features

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Hardware features include:

- ❑ One 2.4GHz radio
- ❑ One 5GHz radio
- ❑ Internal omni-directional antennas
- ❑ One 100/1000Mbps/2.5G Ethernet ports with RJ-45 connectors
- ❑ PoE+ Class 4 powered device
- ❑ One Reset button for restoring the default settings
- ❑ One AC power adapter connector
- ❑ LEDs for 2.4GHz and 5GHz radios, LAN port, and power
- ❑ Kensington lock port
- ❑ Ceiling, wall, or table installation
- ❑ Installing on the Cisco or Fortinet mounting brackets using BRKT-CONV-AP1 converter bracket
- ❑ One Console RS232 RJ-45 port for factory use only

Features of the 2.4GHz and 5GHz radios include:

- ❑ IEEE802.11a/b/g/n/ac/ax
- ❑ Automatic channel selection
- ❑ Band steering
- ❑ Wi-Fi multimedia (WMM) for prioritizing traffic
- ❑ Wi-Fi 6

Features of Power and Power over Ethernet (PoE):

- ❑ PoE+ (IEEE 802.3at)
- ❑ Power saving mode: support IEEE802.3af when either radio is disabled.
- ❑ Redundant power by the AC adapter and PoE+ port

## Hardware Components

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The top view of the TQ2402 GEN2 and TQm2402 GEN2 access points is illustrated in Figure 1.



Figure 1. Access Point Top View

The bottom view is illustrated in Figure 2.

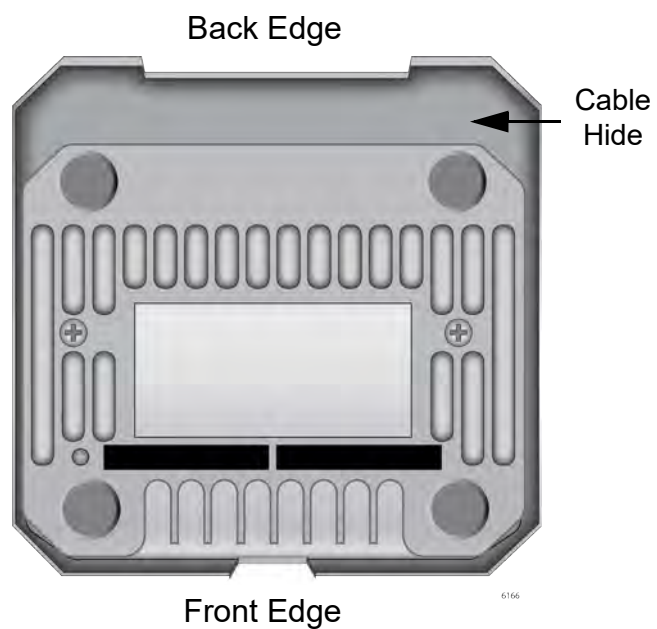


Figure 2. Access Point Bottom View

The front edge view is illustrated in Figure 3.

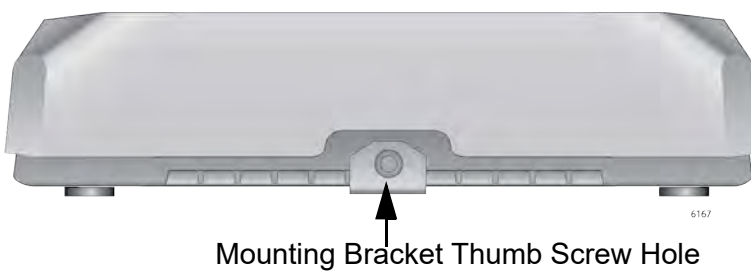


Figure 3. Front Edge View

The back edge view is illustrated in Figure 4.

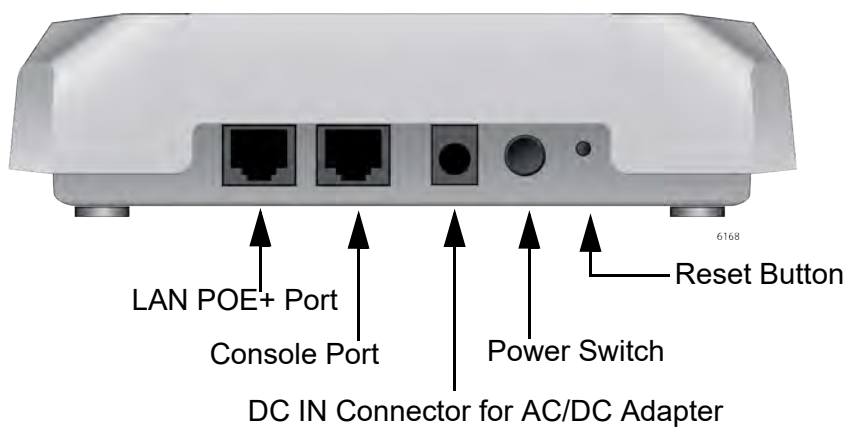


Figure 4. Back Edge View

The left edge view is illustrated in Figure 5.



Figure 5. Left Edge View

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Cable Hide</b>           | The top cover of the access point is larger than the access point chassis to create space on the back for cable connectors and cables shown in Figure 2 on page 23.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Console Port</b>         | The Console Serial port on the back panel is for manufacturing purposes only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Power Switch</b>         | <p>The Power Switch on the back panel in Figure 4 on page 24 turns On or OFF the access point when power is supplied to the access point only from the AC adapter, not from the PoE LAN port.</p> <p>When power is supplied to the access point from the PoE LAN port, the state of the Power Switch does not affect the access point.</p>                                                                                                                                                                                                                                                                                                                                              |
| <b>Kensington Lock Hole</b> | The left panel has a hole for the Kensington lock to be connected to an anti-theft cable/lock to physically secure the access point as shown in Figure 5 on page 24.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Reset Button</b>         | <p>The access point has a Reset button on the back edge in Figure 4 on page 24 for returning the parameter settings of the device to their default values. You might reset the access point if you want to discard its current configuration or if you forgot the manager password and so cannot manage the device.</p> <p>To reset the device, press the button for five seconds and release.</p> <p>You can enable or disable the reset button with the management software. The default setting for the button is enabled. If the access point is installed in a public area, you probably should disable it to protect the device from being reset by unauthorized individuals.</p> |

## LAN Port

---

The wireless access point has one Ethernet port, labeled POE. You use the port to connect the wireless access point to your wired network. Here are the basic properties:

- ❑ LAN port supports PoE+.
- ❑ The default setting for LAN port is enabled. You cannot disable it.

### Power Over Ethernet Plus (PoE+)

You can power the wireless access point with either PoE+ on the LAN port or an AC/DC power adapter. The wireless access point is a PoE+ Class 4 powered device, with maximum power consumption of 25.5 watts. To power the device with PoE+, connect the LAN port to PoE+ power sourcing equipment (PSE). The network cable connecting the LAN port to the PoE+ PSE carries both network traffic and PoE+.

You can power the device with both PoE+ and an AC/DC power adapter. However, the two power sources are not load sharing. The power adapter is the primary power source and PoE+ is redundant power.

### Connector Type

The LAN port has an eight-pin RJ45 connector. The port uses four pins of the connector at 100 Mbps and all eight pins at 1G/2.5Gbps. Refer to the tables in “Port Pinouts” on page 58 for the pin assignments.

### Speed

The LAN port has speeds of 100Mbps/1G/2.5Gbps. The speeds are set automatically with Auto-Negotiation. You cannot disable Auto-Negotiation on the port.

---

#### Note

The LAN port should be connected to a network device that also adjusts port speeds with Auto-Negotiation. If a network device does not support Auto-Negotiation, the LAN port operates at 100 Mbps, which may reduce network performance.

---

### Duplex Mode

The LAN port can operate in either half- or full-duplex mode at 100Mbps, and full-duplex mode at 1G/2.5Gbps. The port is IEEE802.3u compliant and uses Auto-Negotiation to set the duplex mode. You cannot disable Auto-Negotiation on the port.

**Note**

The network device to which you connect the LAN port should also set the duplex mode with Auto-Negotiation. If a network device does not support Auto-Negotiation, the LAN port operates at half-duplex mode. This may result in a duplex mode mismatch if the network device is operating at full duplex.

**Automatic MDIX Detection**

When operating at 100Mbps, the twisted-pair port features automatic MDIX detection. (Automatic MDIX detection does not apply to 1G/2.5Gbps.) This feature automatically configures the port to MDI or MDI-X depending on the wiring configuration of the port on the Ethernet switch.

You cannot disable automatic MDIX detection. For automatic MDIX detection to work properly, this feature must also be present on the Ethernet switch. The LAN port defaults to MDIX if it is connected to a network device that does not support automatic MDIX detection.

**Cable Requirements**

The minimum cable requirements for the port are listed here.

- ☐ 100 Mbps port: Standard TIA/EIA 568-B-compliant Category 3 shielded or unshielded cabling.
- ☐ 1/2.5Gbps port: Standard TIA/EIA 568-A-compliant Category 5 or TIA/EIA 568-B-compliant Enhanced Category 5 (Cat 5e) unshielded cabling.

**Maximum Distance**

The LAN port has a maximum operating distance of 100 meters (328 feet).

**Port Pinouts**

See Table 8 on page 58 for port pinouts information.

## AC Adapter for External Power Supply

---

The access point can be powered in two ways:

- ❑ PoE+ Sourcing Equipment (PSE) on LAN port
- ❑ AC power adapter

You can also power it with both methods for power redundancy. The power sources are not load-sharing. A wireless access point that has both power sources uses the AC power adapter as its primary power source and PoE+ as redundant power.

For technical specifications, refer to “Power Specifications” on page 56. The PWRADP-01 (DA-48Z12) Power Adapter, shown in Figure 6, from Allied Telesis is approved for this product.



Figure 6. PWRADP-01 (DA-48Z12) Power Adapter

## LEDs

The LEDs on the top panel display status information. See Figure 7 for LEDs and Table 1 for the status definition.



Figure 7. Top View - LEDs

Table 1. LED Status Information

| LED           | State          | Description                                              |
|---------------|----------------|----------------------------------------------------------|
| PWR/<br>SYS   | Green          | The access point is powered ON and operating normally.   |
|               | Blinking Green | The access point is booting up.                          |
|               | Red            | The access point has encountered a fault condition.      |
|               | Blinking Red   | The access point is upgrading its firmware.              |
|               | Off            | The access point is <i>not</i> receiving power.          |
| PORT<br>(POE) | Green          | The port has established a 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          | Green          | The 5GHz radio is enabled.                               |
|               | Off            | The 5GHz radio is disabled.                              |



## Chapter 2

# Installing the Wireless Access Point

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This chapter contains the installation procedures for the TQ6403 Access Points. The procedures are detailed in the following sections:

- ❑ “Reviewing Safety Precautions” on page 32
- ❑ “Unpacking the Shipping Box” on page 35
- ❑ “Reviewing Installation Guidelines” on page 36
- ❑ “Installing the Access Point on a Table” on page 38
- ❑ “Overview to Installing the Access Point on a Wall or Ceiling” on page 39
- ❑ “Pre-fitting the Mounting Bracket on the Access Point” on page 40
- ❑ “Installing the Mounting Bracket on a Wall or Ceiling” on page 42
- ❑ “Connecting an Ethernet Cable to LAN Port” on page 46
- ❑ “Connecting the AC Power Adapter” on page 48
- ❑ “Attaching the Access Point to the Mounting Bracket” on page 49
- ❑ “Installing an Anti-theft Device” on page 52
- ❑ “Starting the First Management Session” on page 53

---

### Note

The non-US models of this product have a country code setting that must be set during the initial management session of the units. The setting ensures that the units operate in compliance with the laws and regulations of your country or region.

For the US model, the country code 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.

---

## Reviewing Safety Precautions

---

Please review the following safety precautions before installing the access point.

**Important:** Safety statements that have the  symbol are translated into multiple languages in the *Translated Safety Statements* document, which is available at [www.alliedtelesis.com/library](http://www.alliedtelesis.com/library).



---

**Warning**

To prevent electric shock, do not remove the cover. No user-serviceable parts inside. This unit contains hazardous voltages and should only be opened by a trained and qualified technician. To avoid the possibility of electric shock, disconnect electric power to the product before connecting or disconnecting the LAN cables.

 **E1**

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**Warning**

Do not work on equipment or cables during periods of lightning activity.  **E2**

---



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**Warning**

All Countries: Install product in accordance with local and National Electrical Codes.  **E8**

---



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**Warning**

Only trained and qualified personnel are allowed to install or to replace this equipment.  **E14**

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---

**Warning**

To reduce the risk of electric shock, the PoE ports on this product must not connect to cabling that is routed outside the building where this device is located.  **E40**

---



---

**Warning**

This equipment shall be installed in a Restricted Access location.

 **E45**

---

**Warning**

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. ⚡ E80

**Note**

The access point must be powered by:

1. A UL listed external AC/DC power supply suitable for use at Tma 45°C, a maximum operating altitude of 3000 m or higher, and whose output meets separated extra-low voltage (SELV), limited power sources (LPSs) and is rated 12 VDC, 4.0 A,

OR

2. By Power over Ethernet through a UL listed ITE. Refer to Table 5, "External AC/DC Adapter Specifications" on page 56.

**Caution**

Air vents must not be blocked and must have free access to the room ambient air for cooling. ⚡ E6

**Warning**

An operational unit can be hot. Exercise caution when handling with unprotected hands.

**Warning**

Operating Temperature. This product is designed for a maximum ambient temperature of 45°C (113° F) ⚡ E7.

**Warning**

To reduce the risk of electric shock, the PoE port on this product must not connect to cabling that is routed outside the building where this device is located. ⚡ E40

**Warning**

This equipment is intended for indoor use only. ⚡ E95

---

**Note**

If you are not using PoE to power to unit, use only an approved AC/DC adapter. Refer to “Power Specifications” on page 56.

---



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**Caution**

The unit does not contain serviceable components. Please return damaged units for servicing.  E42

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---

**Note**

You should verify that your PoE network adheres to the standards of a separated extra-low voltage (SELV) circuit before using the PoE feature on the wireless access point.

---

# Unpacking the Shipping Box

To verify the contents of the shipping box, perform the following procedure:

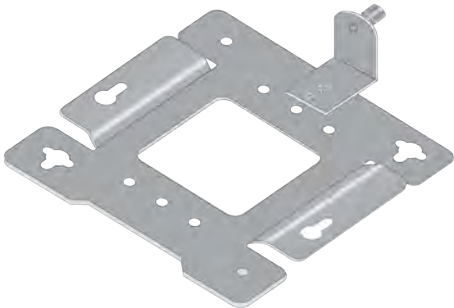
- 1. Remove all components from the shipping box.

**Note**

Store the packaging material in a safe location. Please use the original shipping material if you need to return the device to Allied Telesis.

- 2. Verify the contents of the shipping box listed in Table 2. If any item is missing or damaged, contact your Allied Telesis sales representative for assistance.

Table 2: Shipping Box Components

| Name                                     | Component                                                                             |
|------------------------------------------|---------------------------------------------------------------------------------------|
| TQ2402 GEN2 or TQm2402 GEN2 Access Point |   |
| One Mounting Bracket                     |  |
| Two M5 x 4.5 mm, Pan-head Screws         |  |

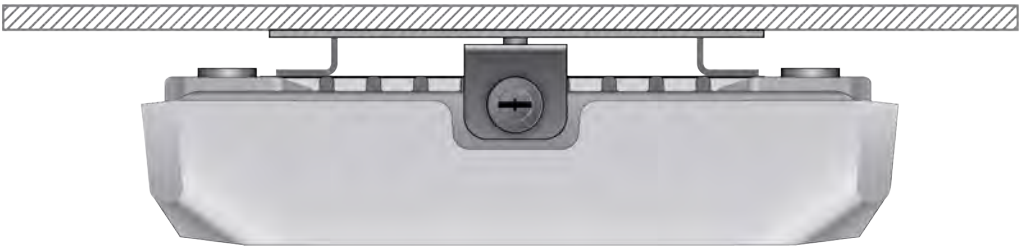
## Reviewing Installation Guidelines

---

Review the following guidelines before installing the access point:

- ❑ The ceiling or wall mounting surface must be of proper material to accommodate the screws and strong enough to support the weight of the access point and cables. (Refer to Table 3 on page 55 for the product weight.)
- ❑ You can install the access point on a wall where Cisco or Fortinet bracket has already been installed. You need a bracket converter. See “the *BRKT-CONV-AP1 Bracket Converter Installation Guide*” for more information.
- ❑ Connect the Ethernet cable and power cord (if applicable) to the access point before installing the product on the ceiling or wall. Depending on the installation location, connecting or removing cables may be difficult after the device is installed.
- ❑ Verify that the Ethernet cable is long enough to connect to its destination port before installing the access point. Once the installation is complete, it is physically difficult to change the cable.
- ❑ If the wireless access point is powered by an AC adapter, verify that an AC power outlet is within six feet of the planned installation site. (Refer to “Power Specifications” on page 56 for the AC adapter specifications.)
- ❑ Refer to Figure 8 on page 37 for approved orientations of the wireless access point on a table, wall, or ceiling.

Ceiling Installation



Wall Installation

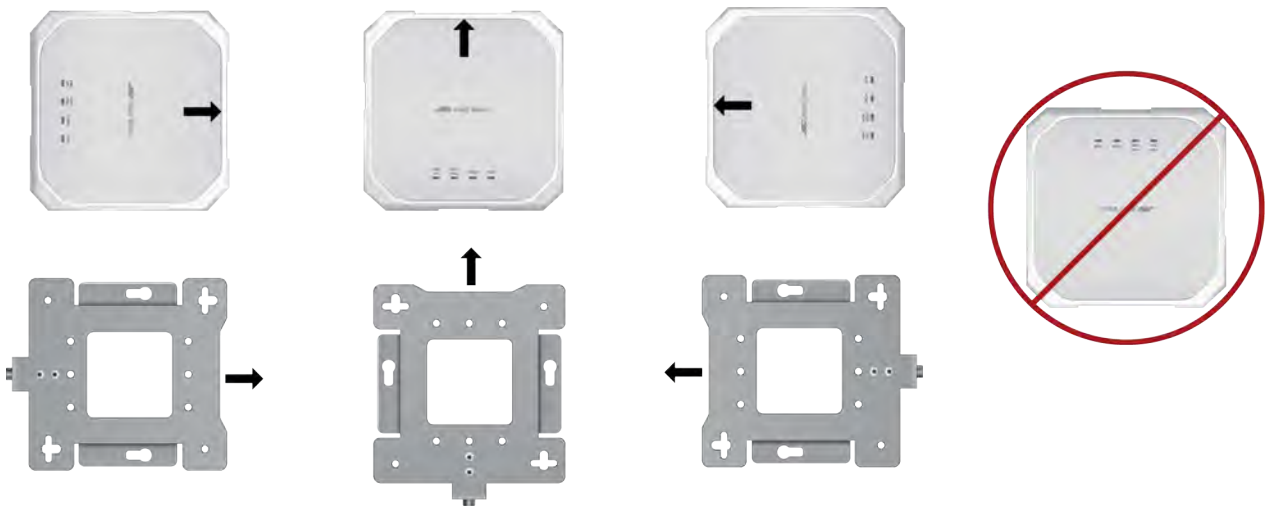


Table Installation

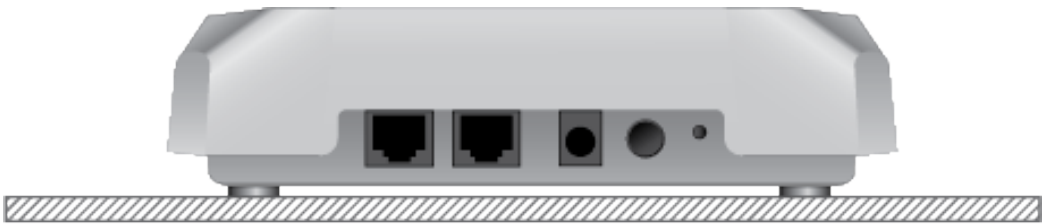


Figure 8. Approved Installation Orientations on a Ceiling, Wall, or Table

## Installing the Access Point on a Table

---

You need the following items to install the access point on a table:

- ☐ TQ2402 GEN2 or TQm2402 GEN2 Access Point
- ☐ One Ethernet cable
- ☐ External AC power adapter (Optional if using PoE+. Required if not using PoE+ or for redundant power.)
- ☐ Kensington lock (optional)

---

### **Note**

See “Reviewing Safety Precautions” on page 32 and “Reviewing Installation Guidelines” on page 36 before installing the product.

---

Perform the following steps to install the wireless access point on a table:

1. Place the access point at the selected location on the table.
2. Connect Ethernet cables to LAN port. Refer to “Connecting an Ethernet Cable to LAN Port” on page 46.
3. To connect an AC power adapter to the access point, go to “Connecting the AC Power Adapter” on page 48.
4. To install a security cable, refer to “Installing an Anti-theft Device” on page 52.
5. To start managing the device, go to “Starting the First Management Session” on page 53.

## Overview to Installing the Access Point on a Wall or Ceiling

---

Here are the procedures for installing the wireless access point on a wall or ceiling:

- ☐ “Pre-fitting the Mounting Bracket on the Access Point” on page 40
- ☐ “Installing the Mounting Bracket on a Wall or Ceiling” on page 42
- ☐ “Connecting an Ethernet Cable to LAN Port” on page 46
- ☐ “Connecting the AC Power Adapter” on page 48
- ☐ “Attaching the Access Point to the Mounting Bracket” on page 49
- ☐ “Installing an Anti-theft Device” on page 52

---

**Note**

Please see “Reviewing Safety Precautions” on page 32 and “Reviewing Installation Guidelines” on page 36 before installing the product.

---

---

**Note**

Depending on the installation location, it may be easier to connect the network cables and optional power adapter to the wireless access point before installing it on the wall or ceiling.

---

You need the following items to install the wireless access point on a ceiling or wall:

- ☐ TQ2402 GEN2 or TQm2402 GEN2 Access Point
- ☐ Two screws to attach the access point to the mounting bracket
- ☐ Mounting bracket
- ☐ Four (4) M4, 25.0 mm flat-head wood screws and anchors (not provided) for fastening the mounting bracket
- ☐ Phillips head screwdriver (not provided)
- ☐ Pencil (not provided)
- ☐ External AC power adapter (Optional if using PoE+. Required if not using PoE+ or for redundant power.)
- ☐ Kensington lock (optional and not provided)

---

**Note**

The four Phillips head M4 screws/anchors, the Phillips head screwdriver, pencil, external AC power adapter and Kensington lock are *not* included with the product.

---

## Pre-fitting the Mounting Bracket on the Access Point

---

To pre-fit the mounting bracket on the access point, perform the following procedure:

1. Place the wireless access point upside down on a table.
2. Install the two screws (provided) fully into the bottom panel of the access point. See Figure 9.

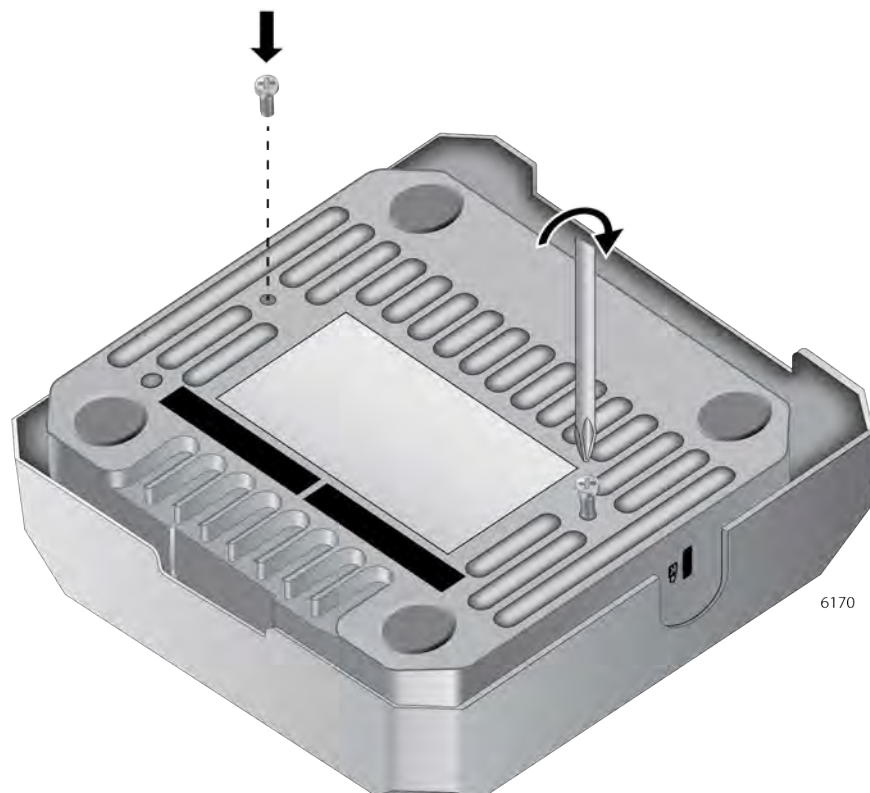


Figure 9. Attaching the Bracket Screws to the Access Point

The screw collar provides the proper spacing for the mounting bracket beneath the screw head. See Figure 10.



Figure 10. Panel Screw

3. Make sure that the mounting bracket fits to the access point by sliding the bracket beneath the screws as shown in Figure 11.



Figure 11. Attaching the Mounting Bracket on the Access Point

4. Slide the mounting bracket forward and remove it from the access point. See Figure 12.

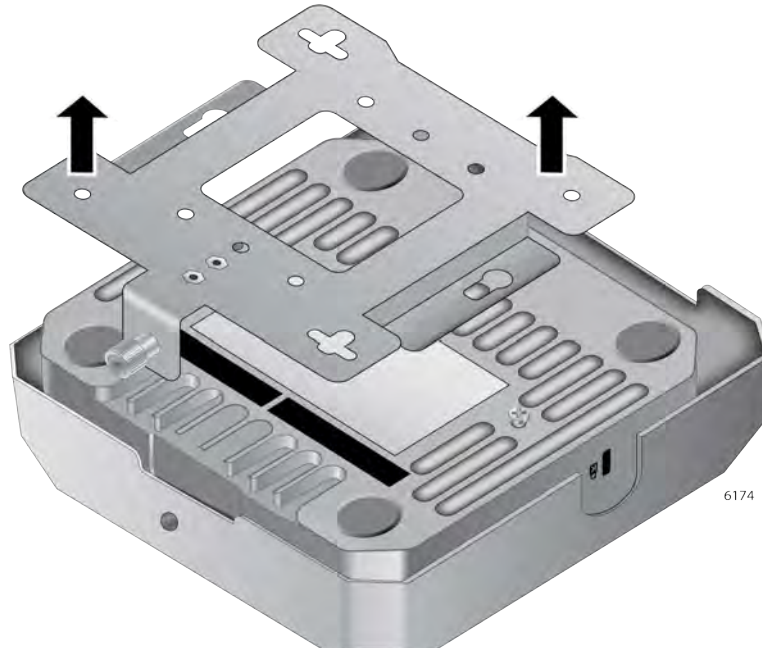


Figure 12. Removing the Mounting Bracket from the Access Point

5. Go to “Installing the Mounting Bracket on a Wall or Ceiling” on page 42.

## Installing the Mounting Bracket on a Wall or Ceiling

---

To install the mounting bracket on a wall or ceiling, perform the following procedure:

1. Choose the location and orientation for the access point on the wall or ceiling. Refer to Figure 8 on page 37.
2. Position the mounting bracket at the selected location and orientation for the access point. Consider the following guidelines.
  - ❑ The thumbscrew on the mounting bracket is where the front panel of the access point will be.
  - ❑ The ports and connectors are on the back panel, away from the thumbscrew.
3. With a pencil, mark the wall or ceiling with the two key-hole slots of the bracket. Refer to Figure 13.

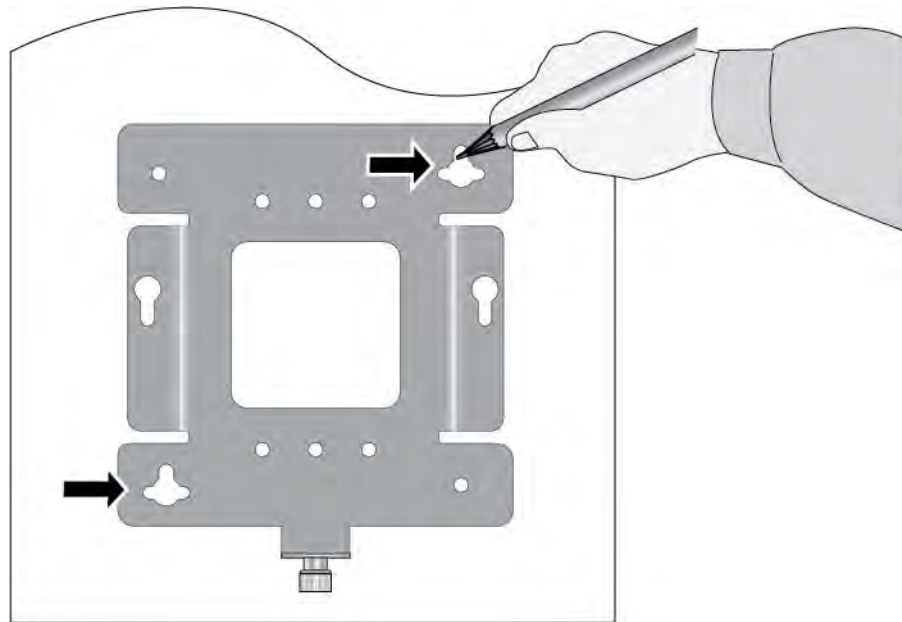


Figure 13. Marking the Holes for the Key-Hole Slots

4. Pre-drill the two marked locations for the keyhole slots on the hard-surface ceiling or wall.

5. Install two M4 screws and anchors (if required). Leave the screws loose enough so that the bracket can slide under the screw heads. Refer to Figure 14.

---

**Note**

For a wooden wall or ceiling, use M4 x 25 mm flat-head wood screws and anchors, if required. The screws and anchors are not provided.

---

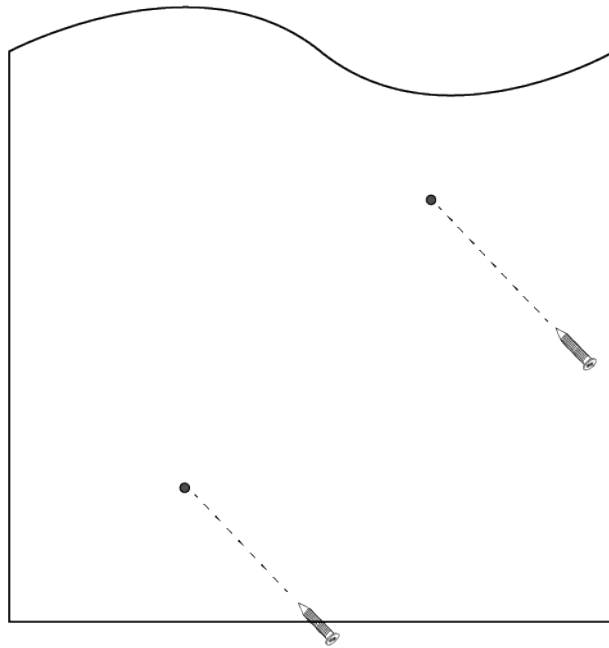


Figure 14. Installing Two Screws

6. Insert the openings of the bracket key-hole slots under the two screw heads and slide the bracket into the narrow end of the key-hole slot openings. See Figure 15.

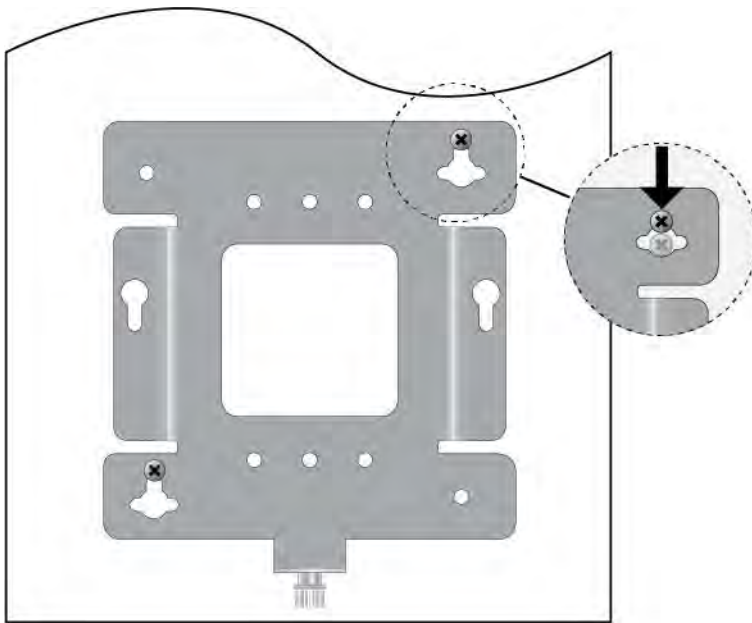


Figure 15. Installing the Mount Bracket On the Screws

7. Tighten the screws snugly onto the bracket.
8. To secure the mounting bracket, pre-drill holes through the two bracket mounting holes opposite the key-hole slots. See Figure 16.

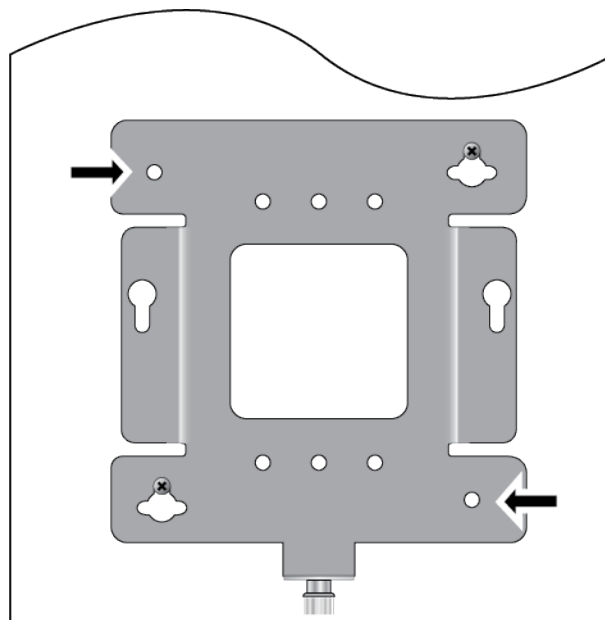


Figure 16. Pre-Drill Holes on Mounting Bracket

9. Install and tighten two M4 screws (not provided) in the holes prepared in Step 8.

The bracket installation is now complete. See Figure 17.

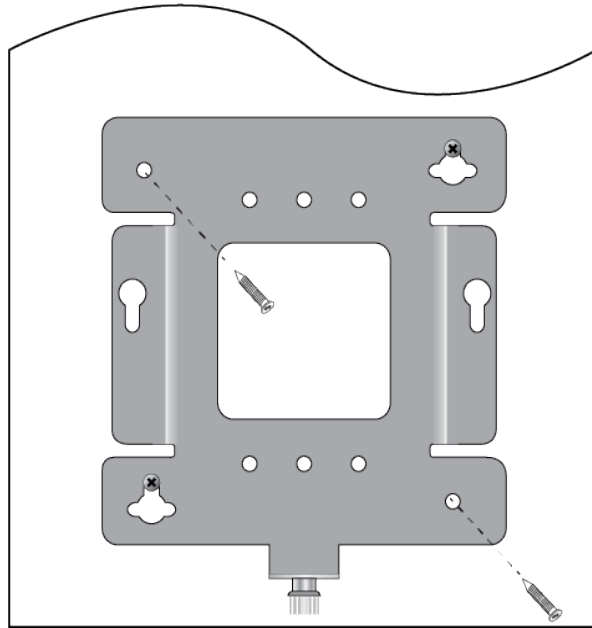


Figure 17. Securing the Mount Bracket

10. Go to “Connecting an Ethernet Cable to LAN Port” on page 46.

## Connecting an Ethernet Cable to LAN Port

---

This section describes the instructions for connecting an Ethernet cable to the LAN port.

### Guidelines

Review the following guidelines before connecting a cables to the LAN port:

- ❑ For information on cable specifications, see “Cable Requirements” on page 27.
- ❑ If you are installing the access point on a ceiling or wall, you might find it easier to connect the cable before placing the unit on the mounting bracket.
- ❑ To power the access point through the PoE+ LAN port, see “PoE+ Power Requirements” on page 56.

### Connecting the Ethernet Cable to LAN Port

To connect the network cable, perform the following procedure:

1. To cable the LAN port, connect an Ethernet cable into the port. The cable requirements are in “Cable Requirements” on page 27. Refer to Figure 18.



Figure 18. Connecting an Ethernet Cable to the LAN1 Port

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

---

#### Note

If the device is PoE+ power sourcing equipment (PSE), the access point begins to power on and initialize its management software.

---

3. Do one of the following:
  - a. If the access point is to be power only by PoE+, without an AC power adapter, go to “Attaching the Access Point to the Mounting Bracket” on page 49.

- b. To connect an external AC power adapter, go to "Connecting the AC Power Adapter".

## Connecting the AC Power Adapter

---

The access point can be powered with PoE+ on the LAN port, an AC power adapter, or both. A wireless access point that is powered by both methods uses the AC adapter as its primary power and PoE as redundant power. For an AC power adapter, Allied Telesis recommends the PWRADP-01 (DA-48Z12) Power Adapter.

If you purchased a power adapter for the wireless access point, perform the following procedure. Otherwise, go to “Attaching the Access Point to the Mounting Bracket” on page 49.

Perform the following procedure to install an AC power adapter:

1. If the AC power adapter has replaceable AC plugs, verify that the current plug on the adapter is the correct plug for your region. If it is not, install the correct AC plug by following the instructions provided with the adapter.
2. Plug the AC connector of the power adapter into the DC IN jack on the access point. Refer to Figure 19.

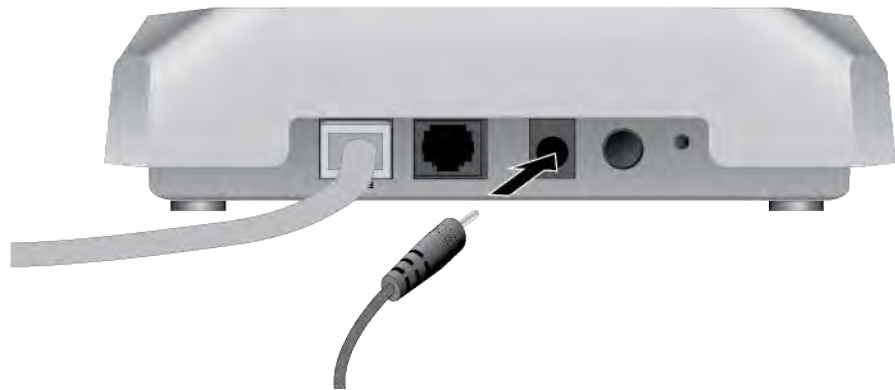


Figure 19. Connecting an AC Power Adapter to the Access Point

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

---

**Note**

The Power Switch controls power from the AC power supply. It does not control PoE+ on the LAN ports

---

5. Go to “Attaching the Access Point to the Mounting Bracket” on page 49.

## Attaching the Access Point to the Mounting Bracket

---

To attach the wireless access point on the mounting bracket on the wall or ceiling, perform the following procedure:

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. Refer to Figure 20. (These are the two access point chassis screws installed in “Pre-fitting the Mounting Bracket on the Access Point” on page 40.)

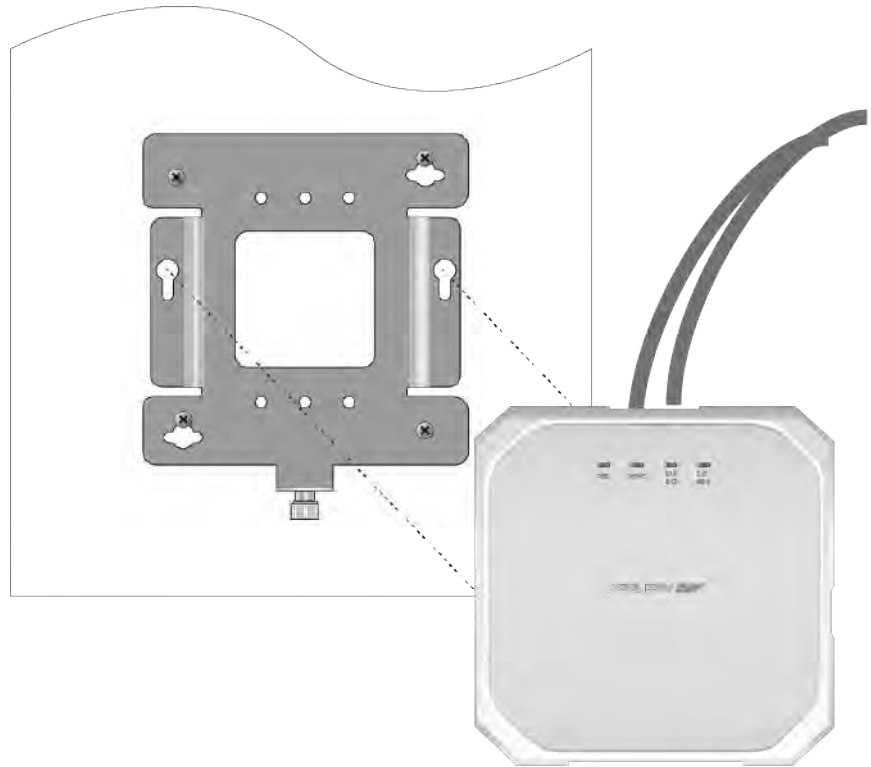


Figure 20. Installing the Access Point on the Mounting Bracket

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.

See Figure 21 on page 50 for the access point and bracket orientations.

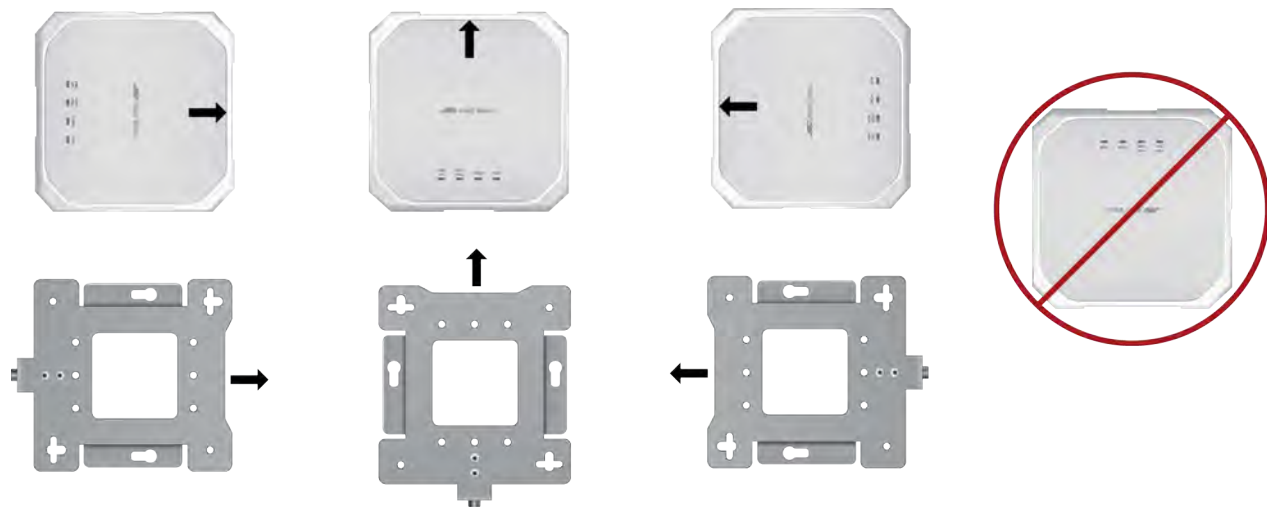


Figure 21. Seating the Access Point on the Mounting Bracket

3. Tighten the thumbscrew to secure the access point to the mounting bracket. Refer to Figure 22.



Figure 22. Tightening the Mounting Bracket Thumbscrew

4. Place the Ethernet cable(s) and power cable (if any) along the cable guides inside of the top cover in the cable hide space. See Figure 23.



Figure 23. Fitting the Cables in the Cable Hide

5. Go to “Installing an Anti-theft Device” on page 52 or “Starting the First Management Session” on page 53.

## Installing an Anti-theft Device

---

Installation of an anti-theft cable/lock is optional. The access point has a lock port that is compatible with a Kensington lock. The lock port can be used to physically secure the device to a table, wall, or a ceiling.

---

**Note**

Anti-theft devices are not available from Allied Telesis.

---

1. Follow the instructions provided with the vendor's anti-theft device for the installation. See Figure 24 for the Kensington lock port location.

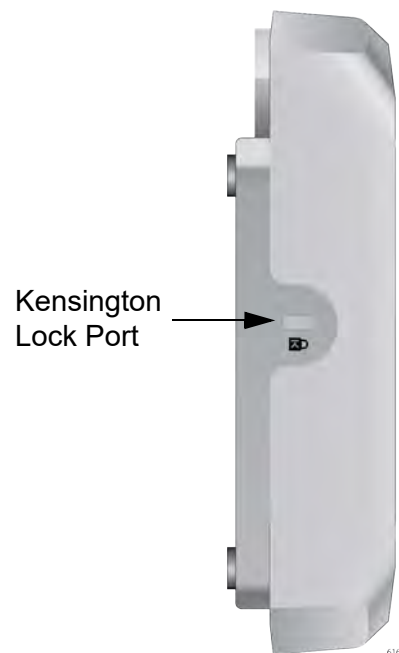


Figure 24. Kensington Lock Port Location

2. If you are installing the wireless access point on a wall or ceiling and have not installed in on the mounting bracket yet, go to “Attaching the Access Point to the Mounting Bracket” on page 49.

## Starting the First Management Session

---

This section contains an abbreviated version of the procedure to start the first management session. For complete instructions, refer to the *TQ2402 GEN2 and TQm2402 GEN2 Management Software User's Guide*.

The wireless 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 the LAN1 port 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 first 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 login prompt. Refer to Figure 25.



Figure 25. Login Prompt

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



## Appendix A

# Technical Specifications

---

This appendix contains the specifications for the TQ6403 Access Points in the following sections:

- ❑ “Physical Specifications”
- ❑ “Environmental Specifications”
- ❑ “Power Specifications” on page 56
- ❑ “Cable Specifications” on page 57
- ❑ “LAN Port Specifications and Pinouts” on page 58

## Physical Specifications

---

Table 3. Physical Specifications

| Parameter                       | Specification                                            |
|---------------------------------|----------------------------------------------------------|
| Dimensions (W x D x H)          | 165 mm X 163 mm X 45 mm<br>(6.5 in. x 6.4 in. x 1.8 in.) |
| Weight without mounting bracket | To be updated Kg ( lbs)                                  |
| Weight with mounting bracket    | To be updated 0.2 Kg (0.44 lbs)                          |

## Environmental Specifications

---

Table 4. Environmental Specifications

| Parameter                  | Specification                        |
|----------------------------|--------------------------------------|
| Operating Temperature      | 0° C to 45° C (32° F to 113° 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)                     |

## Power Specifications

### External AC Adapter Specifications

Table 5 lists the power requirements for an external AC/DC adapter.

Table 5. External AC/DC Adapter Specifications

| Parameter                  | Specification                   |
|----------------------------|---------------------------------|
| Input Voltage Range        | 100 - 240 VAC                   |
| Input Frequency            | 50 - 60 Hz                      |
| Rated Output Voltage       | +12 VDC                         |
| Rated Output Current       | 4 A                             |
| Temperature Range          | 0° C to 50° C (32° F to 122° F) |
| Maximum Operating Altitude | 3000 m (9843 ft)                |

#### Note

If you use an AC adapter with the access point, Allied Telesis recommends the PWRADP-01 (DA-48Z12) adapter. The adapter is a UL Listed power supply and is compatible with the above specifications while meeting the standards of a separated extra-low voltage (SELV) product.

#### Note

The PWRADP-01 (DA-48Z12) adapter is sold separately.

### PoE+ Power Requirements

Table 6 lists the PoE+ specifications for the PoE LAN port.

Table 6. PoE+ Power Specifications on LAN Port

|                           | TQ2402 GEN2 | TQm2402 GEN2 |
|---------------------------|-------------|--------------|
| Maximum Power Consumption | 24.1 watts  | 23.9 watts   |
| Rated Voltage             | DC 48V      |              |
| Rated Current             | 0.67A       |              |

#### Note

If you use a PoE injector, Allied Telesis recommends using the 6101GP PoE+ or 7101GHTm PoE++ injector. Both PoE injectors are UL-certified.

## Cable Specifications

---

The minimum cable requirements for the LAN port are listed here.

- ❑ 100Mbps ports: Standard TIA/EIA 568-B-compliant Category 3 shielded or unshielded cabling.
- ❑ 1G/2.5G ports: Standard TIA/EIA 568-A-compliant Category 5 or TIA/EIA 568-B-compliant Enhanced Category 5 (Cat 5e) unshielded cabling.

---

**Note**

The maximum operating distance of the cables is 100 meters (328 feet).

---

# LAN Port Specifications and Pinouts

**Port Specifications**

The access point port specifications are shown in Table 7.

Table 7. LAN Port Specifications

| Connector               | Specification          |
|-------------------------|------------------------|
| PoE standard - LAN port | IEEE 802.3at (class 4) |

**Port Pinouts**

The pin signal definitions for the LAN port are given here. Figure 26 illustrates the pin layout of the ports.

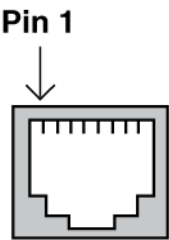


Figure 26. Pin Layout for RJ45 Connector on LAN Port

Table 8 lists the pin signals.

Table 8. Pin Signals for 100M/1G/2.5G Base-T Connectors

| Pin | 100 Mbps MDI Signal | 100 Mbps MDI-X Signal | 1G/2.5G Signal         |
|-----|---------------------|-----------------------|------------------------|
| 1   | TX+                 | RX+                   | Bi-directional pair A+ |
| 2   | TX-                 | RX-                   | Bi-directional pair A- |
| 3   | RX+                 | TX+                   | Bi-directional pair B+ |
| 4   | Not used            | Not used              | Bi-directional pair C+ |
| 5   | Not used            | Not used              | Bi-directional pair C- |
| 6   | RX-                 | TX-                   | Bi-directional pair B- |
| 7   | Not used            | Not used              | Bi-directional pair D+ |
| 8   | Not used            | Not used              | Bi-directional pair D- |

## Appendix B

# Regulatory Statements

---

This appendix contains the following regulatory statements:

- ❑ “Federal Communication Commission Interference Statement” on page 60
- ❑ “Industry Canada Statement” on page 62
- ❑ “Europe - EU Declaration of Conformity” on page 64
- ❑ “UK - UKCA Declaration of Conformity” on page 66

## Federal Communication Commission Interference Statement

---

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- ☐ Reorient or relocate the receiving antenna.
- ☐ Increase the separation between the equipment and receiver.
- ☐ Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- ☐ Consult the dealer or an experienced radio/TV technician for help.



### Caution

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. ⚡ E80

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### Caution

Avertissement de la FCC: Les changements ou modifications non expressément approuvés par la partie responsable de la conformité pourraient annuler l'autorité de l'utilisateur à utiliser cet équipement. ⚡ E80

---

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The device is restricted to indoor use only and can be operated within 2412MHz to 2462MHz, 5180GHz to 5320GHz, 5500GHz to 5720GHz, and 5745GHz to 5825GHz. Selection of other channels is disabled. The device meets all the other requirements specified in Part E, Section 15.407 of the FCC Rules.

### **Radiation Exposure Statement**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. The AT-TQ2402 GEN2 and AT-TQm2402 GEN2 access points should be installed and operated with minimum distance 20 cm between the radiator and your body.

## Industry Canada Statement

---

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) L'appareil ne doit pas produire de brouillage.
- (2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la Class B est conforme à la norme NMB-003 du Canada.

### **Caution:**

- (i) the device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems.

### **Avertissement:**

Le guide d'utilisation des dispositifs pour réseaux locaux doit inclure des instructions précises sur les restrictions susmentionnées, notamment:

- (i) les dispositifs fonctionnant dans la bande 5150-5250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux.

### **Radiation Exposure Statement:**

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. The AT-TQ2402 GEN2 and AT-TQm2402 GEN2 access points should be installed and operated with minimum distance 20 cm between the radiator and your body.

**Déclaration d'exposition aux radiations:**

Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. Les points d'accès AT-TQ2402 GEN2 et AT-TQm2402 GEN2 doivent être installés et utilisés avec une distance minimale de 20 cm entre le radiateur et votre corps.

## Europe - EU Declaration of Conformity

Hereby, Allied Telesis declares that the radio equipment type [AT-TQ2402 GEN2, AT-TQm2402 GEN2] is in compliance with Directive 2014/53/EU.

### Operating Frequencies and Maximum Transmission Power Levels

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

AT-TQ2402 GEN2

|               | Beamforming | Non-Beamforming |
|---------------|-------------|-----------------|
| 2412-2472MHz  | 19.98 dBm   | 19.99 dBm       |
| 5150-5250 MHz | 22.87 dBm   | 22.75 dBm       |
| 5250-5350 MHz | 22.74 dBm   | 22.71 dBm       |
| 5470-5725 MHz | 29.92 dBm   | 28.79 dBm       |

AT-TQm2402 GEN2

|               | Beamforming | Non-Beamforming |
|---------------|-------------|-----------------|
| 2412-2472MHz  | 19.98 dBm   | 19.99 dBm       |
| 5150-5250 MHz | 22.87 dBm   | 22.75 dBm       |
| 5250-5350 MHz | 22.74 dBm   | 22.71 dBm       |
| 5470-5725 MHz | 29.92 dBm   | 28.79 dBm       |

#### Note

Operations in the 5.15 - 5.35 GHz band are restricted to indoor usage only.

## Radiation Exposure Statement

This equipment complies with EU radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body.



|    |    |    |    |    |         |    |    |    |
|----|----|----|----|----|---------|----|----|----|
| AT | BE | BG | CH | CY | CZ      | DE | DK | EE |
| EL | ES | FI | FR | HR | HU      | IE | IS | IT |
| LI | LT | LU | LV | MT | NL      | NO | PL | PT |
| RO | SE | SI | SK | TR | UK (NI) |    |    |    |

## Importer

Allied Telesis International BV  
Incheonweg 7, 1437 EK Rozenburg

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### Note

Contact Allied Telesis for the EU conformity statement. To contact Allied Telesis, visit our web site at **[www.alliedtelesis.com/contact](http://www.alliedtelesis.com/contact)**.

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## UK - UKCA Declaration of Conformity

Hereby, Allied Telesis declares that the radio equipment type [AT-TQ2402 GEN2, AT-TQm2402 GEN2] is in compliance with the Radio Equipment Regulations 2017

### Operating Frequencies and Maximum Transmission Power Levels

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

AT-TQ2402 GEN2

|               | Beamforming | Non-Beamforming |
|---------------|-------------|-----------------|
| 2412-2472MHz  | 19.98 dBm   | 19.99 dBm       |
| 5150-5250 MHz | 22.87 dBm   | 22.75 dBm       |
| 5250-5350 MHz | 22.74 dBm   | 22.71 dBm       |
| 5470-5725 MHz | 29.92 dBm   | 28.79 dBm       |

AT-TQm2402 GEN2

|               | Beamforming | Non-Beamforming |
|---------------|-------------|-----------------|
| 2412-2472MHz  | 19.98 dBm   | 19.99 dBm       |
| 5150-5250 MHz | 22.87 dBm   | 22.75 dBm       |
| 5250-5350 MHz | 22.74 dBm   | 22.71 dBm       |
| 5470-5725 MHz | 29.92 dBm   | 28.79 dBm       |

#### Note

Operations in the 5.15 - 5.35 GHz band are restricted to indoor usage only.

**Radiation  
Exposure  
Statement**

This equipment complies with EU radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body.

**Importer**

Allied Telesis International BV  
11 Pine Court, Kembrey Park Swindon Wiltshire SN2 8AD,  
United Kingdom

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**Note**

Contact Allied Telesis for the UK conformity statement. To contact Allied Telesis, visit our web site at [www.alliedtelesis.com/contact](http://www.alliedtelesis.com/contact).

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