



# Allied Telesis TQ6702 GEN2 Wireless Access Points Installation Guide

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**TQ6702 GEN2  
WIRELESS ACCESS POINTS  
AT-TQ6702 GEN2  
AT-TQ6702 GEN2-R  
AT-TQm6702 GEN2**

**802.11ax Dual-radio 5G/2.4GHz 8x8+4x4 Wireless AP**



## Installation Guide 613-003193 Rev. A

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## TQ6702 GEN2 Wireless Access Points

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## **Electrical Safety and Emissions Standards**

This product meets the following standards:

- “Safety and Electromagnetic Emissions” on page 4
- “Translated Safety Statements” on page 7

## **Standard Compliance**

- RoHs compliant
- European Union RoHS (Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.)

## **Wire Communication**

- IEEE 802.1
- IEEE 802.3
- IEEE 802.3u
- IEEE 802.3z
- IEEE 802.3ab
- IEEE 802.3bz
- IEEE 802.3x
- IEEE 802.3at
- ITU-T G.993.1

## **Wireless Communication**

- IEEE 802.11 DSSS
- IEEE 802.11a OFDM
- IEEE 802.11b DSSS/FHSS
- IEEE 802.11g OFDM
- IEEE 802.11n OFDM
- IEEE 802.11ac OFDM
- IEEE 802.11ax OFDMA

## **Safety**

- CB/UL
  - IEC 62368-1
  - UL 62368-1

- CSA C22.2 No. 62368-1
- IEC 60950-1
- TUV
  - EN62368-1 (Co-license)
- UL2043

## **Electro Magnetic Interference (EMI)**

- FCC part15 Subpart B/ Class B
- EN55032 Class B
- VCCI-CISPR 32 / Class B
- AS/NZS CISPR 32

## **Electro Magnetic Susceptibility – EN55024 and EN55035**

- IEC 61000-4-2
- IEC 61000-4-3
- IEC 61000-4-4
- IEC 61000-4-5
- IEC 61000-4-6
- IEC 61000-4-8
- IEC 61000-4-11
- IEC 61000-3-2
- IEC 61000-3-3

## **FCC**

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

## **CE**

- RED Directive 2014/53/EU
- EN55032
- EN55024
- EN301489-1 V2.1.1
- EN301489-17 V3.1.1
- EN300328 V2.2.2
- EN301893 V2.1.1
- EN62311/ EN50385
- European Council Directive 2014/30/EU
- DFS
- EN550.5

- EN60601-1-2

## **RCM**

- AS/NZS CISPR 32
- AS/NZS 4268

## **IC**

- ICES-003
- RSS-102
- RSS-247

## **Japan**

- JATE
- ARIB STD-T66
- ARIB STD-T71

**Hong Kong OFCA**

**India WPC**

**Malaysia SIRIM**

**Singapore IMDA TS SRD**

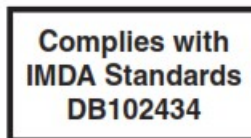


Figure 1. Singapore IMDA Logo

## **Taiwan BSMI & NCC**


- CNS 13438
- CNS 14336-1
- (LP002)

**Thailand NBTC**

**Vietnam MIC**

**China SRRC**

## **Translated Safety Statements**

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).

## **Preface**

This guide contains the hardware installation instructions for the TQ6702 GEN2 Access Points. The access point models included in this manual are:

- TQ6702 GEN2
- TQ6702 GEN2-R
- TQm6702 GEN2

This preface contains the following sections:

- “Safety Symbols Used in this Document” on page 16
- “Contacting Allied Telesis” on page 17

## **Safety Symbols Used in this Document**

This document uses the following conventions.

### **Note**

Notes provide additional information.



### **Caution**

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



### **Warning**

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



### **Warning**

Warnings inform you of hot surfaces.

## **Contacting Allied Telesis**

If you need assistance with this product, visit the Allied Telesis web site at [www.alliedtelesis.com/support](http://www.alliedtelesis.com/support).

## **Product Description**

The sections in this chapter describe the hardware components of the TQ6702 GEN2 Wireless Access Points:

- “Hardware Components” on page 20
- “LAN1 and LAN2 Ports” on page 23
- “AC Adapter for External Power Supply” on page 27
- “LEDs” on page 28

## **Hardware Components**

The top view of the TQ6702 GEN2 Access Point is illustrated in Figure 1.



Figure 1. TQ6702 GEN2 Access Point Top View

The bottom view is illustrated in Figure 2.

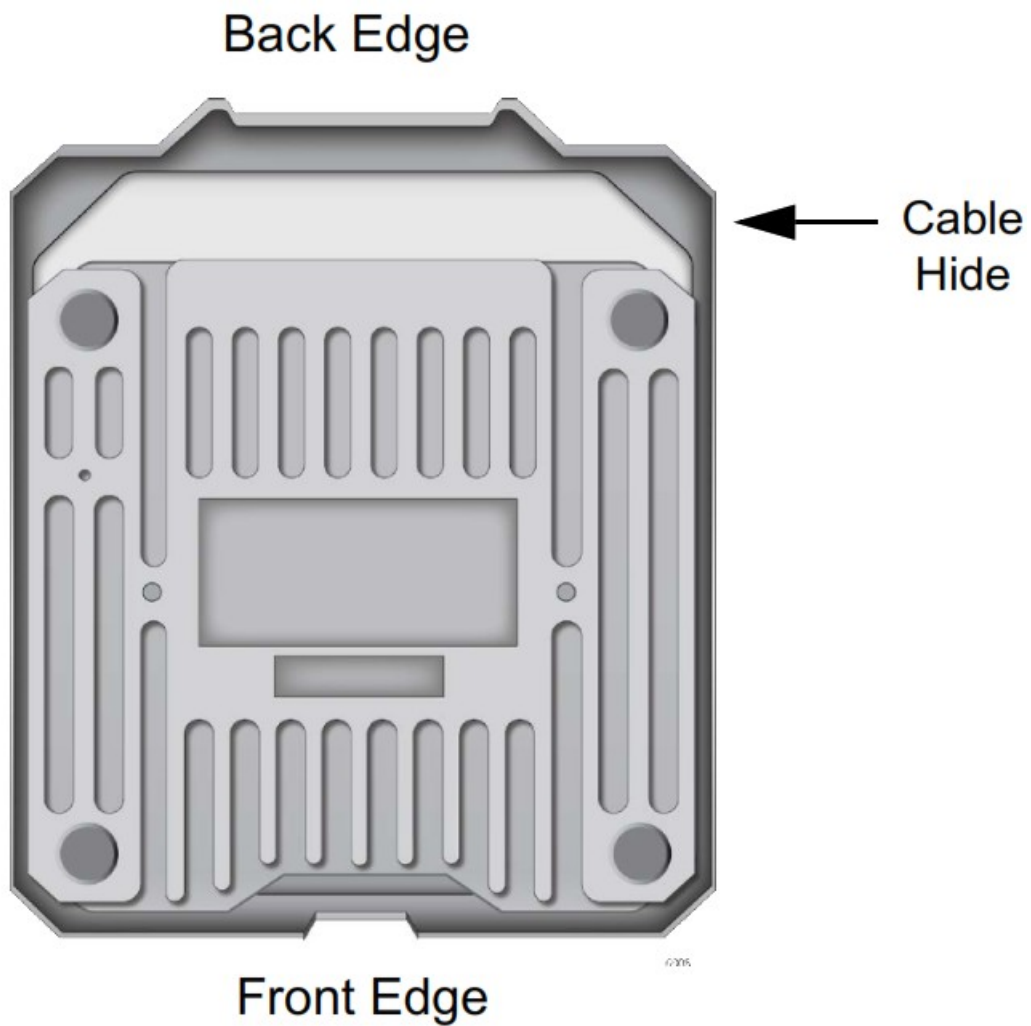


Figure 2. Access Point Bottom View

The front edge view is illustrated in Figure 3.

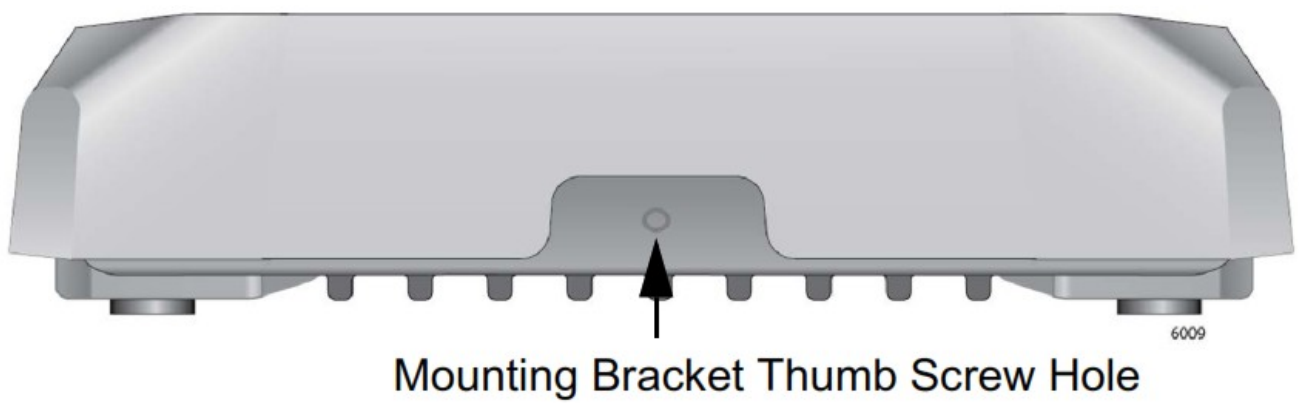


Figure 3. Front Edge View

The back edge view is illustrated in Figure 4.



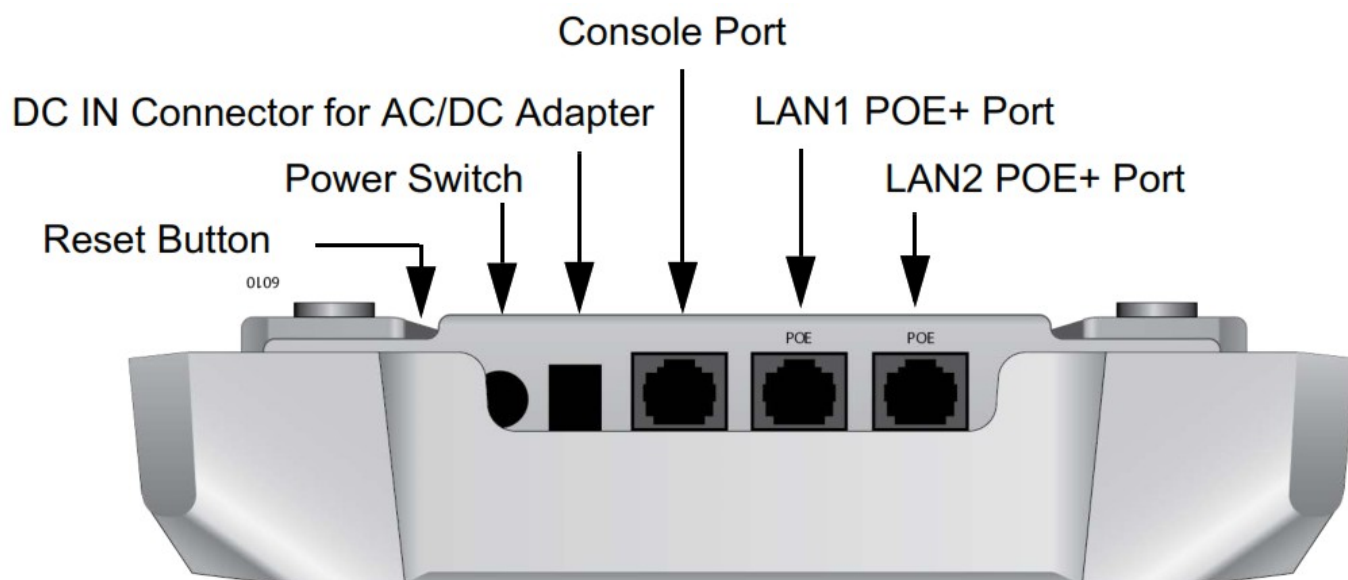


Figure 4. Back Edge View

The left edge view is illustrated in Figure 5.



Figure 5. Left Edge View

### Cable Hide

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 20.

## **Console Port**

The Console Serial ports on the TQ6702 GEN2 and TQm6702 GEN2 models are for manufacturing purposes only.

For the TQ6702 GEN2-R device, you can access the AlliedWare Plus™ operating system through the Console port and configure the device.

## **Power Switch**

The Power Switch on the back panel in Figure 4 on page 21 turns On or OFF the access point when power is supplied to the access point only from the AC adapter, not from PoE LAN ports.

When power is supplied to the access point from the PoE LAN ports, the state of the Power Switch does not affect the access point.

## **Kensington Lock Hole**

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 21.

## **Reset Button**

The access point has a Reset button on the back edge in Figure 4 on page 21 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.

To reset the device, press the button for five seconds and release.

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.

## **LAN1 and LAN2 Ports**

The wireless access point has two Ethernet ports, labeled LAN1 and LAN2. You use the ports to connect the wireless access point to your wired network. Here are their basic properties:

- LAN1 and LAN2 ports support PoE+.
- The default setting for LAN1 port is enabled. You cannot disable it.
- The default setting for LAN2 port is disabled.
- LAN1 and LAN2 ports can be combined into a static Link Aggregation (LAG) to double the bandwidth between the wireless access point and the wired network.
- LAN2 can be configured as a separate Ethernet port for another network device. This is referred to as the Cascade mode.

## **Static Link Aggregation**

You can double the bandwidth between the wireless access point and your wired network by combining LAN1 and LAN2 ports into a static LAG. A static LAG functions as a single logical link between the wireless access point and another network device, such as an Ethernet switch or router. A static LAG also provides link redundancy. If one link goes down, the

wireless access point maintains connectivity to the wired network over the remaining link. Refer to Figure 6.

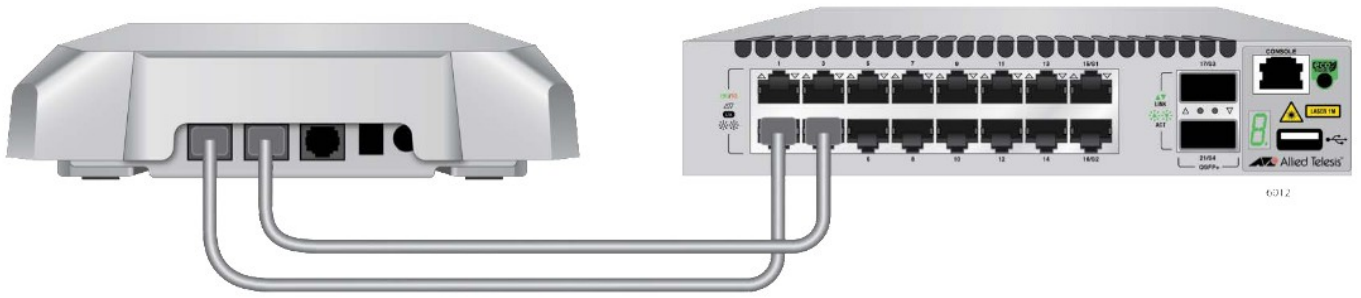


Figure 6. LAN1 and LAN2 Ports in a Static LAG

Here are guidelines to using LAN1 and LAN2 ports as a static LAG:

- You have to connect the ports to the same network device, such as an Ethernet switch or router, or virtual stacking devices. Do not connect the LAN ports to different network devices.
- The network device has to support static LAGs.
- You have to configure the two ports on the network device as a static LAG.
- You activate the static LAG for LAN1 and LAN2 ports with the on-board web browser management interface.

#### Note

Do not enable and cable the LAN2 port until after you have configured the other network device for the static LAG.

#### Cascade Mode

The LAN2 port also has a Cascade mode. The mode allows you to use the port to connect another device to your network. The device can be an end node such as a printer or computer, as shown in Figure 7.

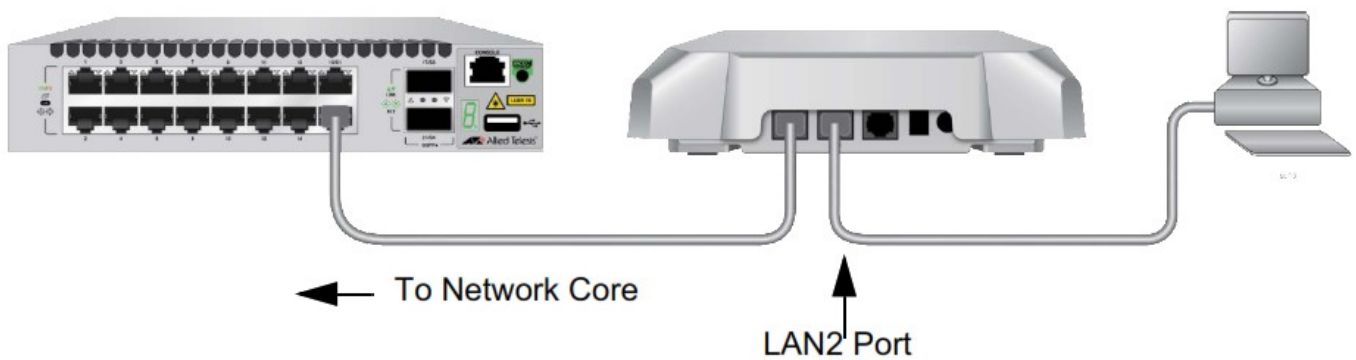


Figure 7. LAN2 Port in Cascade Mode with an End Node

It can also be a networking device such as a switch, router, or media converter. Refer to Figure 8.

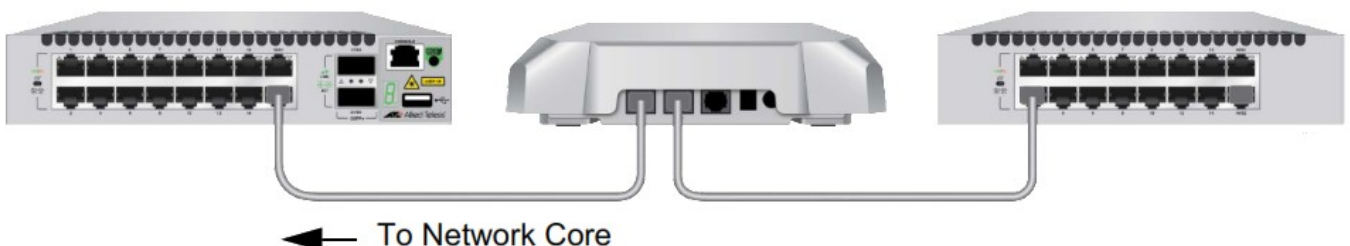


Figure 8. LAN2 Port in Cascade Mode with a Networking Device

Here are the Cascade mode guidelines:

- The Cascade mode requires firmware version 6.0.1-2.1 or later.
- You set the Cascade mode with the on-board web browser management interface.
- The Cascade mode is not supported with Vista Manager EX and the AWC plug-in.
- Do not connect both LAN1 and LAN2 ports to the same network device when the LAN2 port is in the Cascade mode.

### **Power Over Ethernet Plus (PoE+)**

You can power the wireless access point with either PoE+ on the LAN1 port, LAN2 port or an AC/DC power adapter. The wireless access point is a PoE+ Class 4 powered devices, with maximum power consumption of 25.5 watts. To power the device with PoE+, you have to connect LAN1 or LAN2 port to PoE+ power sourcing equipment (PSE). The network cable connecting the LAN1 or LAN2 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 ports have an eight-pin RJ45 connector. The port uses four pins of the connector at 100 Mbps and all eight pins at 1G/2.5G/5Gbps. Refer to the tables in "Port Pinouts" on page 60 for the pin assignments.

### **Speed**

The LAN ports have speeds of 100Mbps/1G/2.5G/5Gbps. The speeds are set automatically with Auto-Negotiation. You cannot disable Auto-Negotiation on the ports.

### **Note**

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

### **Duplex Mode**

Both LAN ports can operate in either half- or full-duplex mode at 100Mbps, and full-duplex mode at 1G/2.5G/5Gbps. The ports are IEEE802.3u compliant and use 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 ports 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 ports feature automatic MDIX detection. (Automatic MDIX detection does not apply to 1G/2.5G/ 5Gbps.) This feature automatically configures the ports 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 ports are listed here.

- 100 Mbps port: Standard TIA/EIA 568-B-compliant Category 3 shielded or unshielded cabling.

- 1/2.5/5Gbps 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 ports have a maximum operating distance of 100 meters (328 feet).

### **Port Pinouts**

See Table 7 on page 60 for port pinouts information.

### **Guidelines**

Here are the guidelines to using the LAN1 and LAN2 ports:

- If you are connecting only one LAN port to your network, you have to use port LAN1.
- The default setting for the LAN1 port is enabled. You cannot disable it.
- The default setting for LAN2 is disabled. To activate it, use the on-board web browser management interface.
- To use the LAN1 and LAN2 ports as a static LAG, you have to connect them to the same network device, such as an Ethernet switch or router, or virtual stacking devices. Do not connect the LAN ports to different network devices. The network device has to support static LAGs.



### **Caution**

When using LAN1 and LAN2 ports as a static LAG, do not activate the LAN2 port until you have configured the ports on the network device to which the LAN ports are connected as a static LAG. Refer to the documentation for the network device for instructions.

- To activate the Cascade mode for LAN2, use the on-board web browser management interface.

### **AC Adapter for External Power Supply**

The access point can be powered in two ways:

- PoE+ Sourcing Equipment (PSE) on LAN1 and/or LAN2 ports
- 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 58. The PWRADP-01 (DA-48Z12) Power Adapter, shown in Figure 9, from Allied Telesis is approved for this product.



Figure 9. PWRADP-01 (DA-48Z12) Power Adapter

### LEDs

The LEDs on the top panel display status information. See Figure 10 for LEDs and Table 1 for the status definition.



Figure 10. TQ6702 GEN2 Access Point Top View – LEDs

Table 1. LED Status Information

LED	State	Description	
		TQ6702 GEN2 and TQm6702 GEN2	TQ6702 GEN2-R
PWR/ SYS	Green	The access point is powered ON and operating normally.	
	Blinking Green	The access point is booting up.	N/A
	Red	The access point has encountered a fault condition.	The access point is booting up.
	Blinking Red	The access point is upgrading its firmware.	N/A
	Off	The access point is not receiving power.	
LAN1 and LAN2	Green	The port has established a link to a network device.	
	Blinking Green	The port is transmitting or receiving data.	
	Amber	The port is connected to PoE+ power sourcing equipment.	
	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.	
5 GHz	Green	The 5GHz radio is enabled.	
	Off	The 5GHz radio is disabled.	

## Installing the Wireless Access Point

This chapter contains the installation procedures for the TQ6702 GEN2 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 Ethernet Cables to LAN1 and LAN2 Ports” 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



#### Warning

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




#### Warning

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




#### Warning

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




#### 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 50 o 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 4, "External AC/DC Adapter Specifications" on page 58.



#### 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 50°C (122° 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 58.



**Caution**

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

**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:

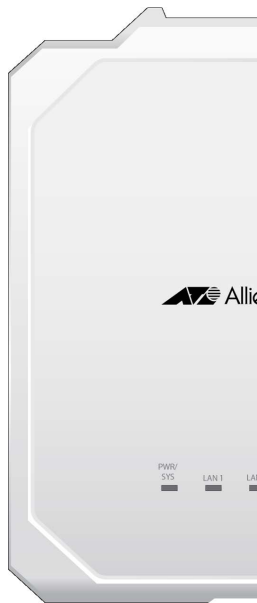
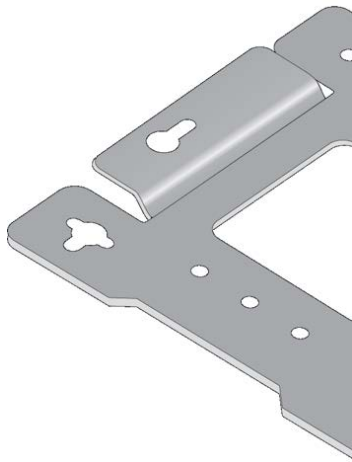

1. Remove all components from the shipping box.

**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 11. If any item is missing or damaged, contact your Allied Telesis sales representative for assistance.

Figure 11. Shipping Box Components

Name	Component
One TQ6702 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 2 on page 57 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(s) and power cord (if applicable) to the access point before installing the product on the ceiling or wall.

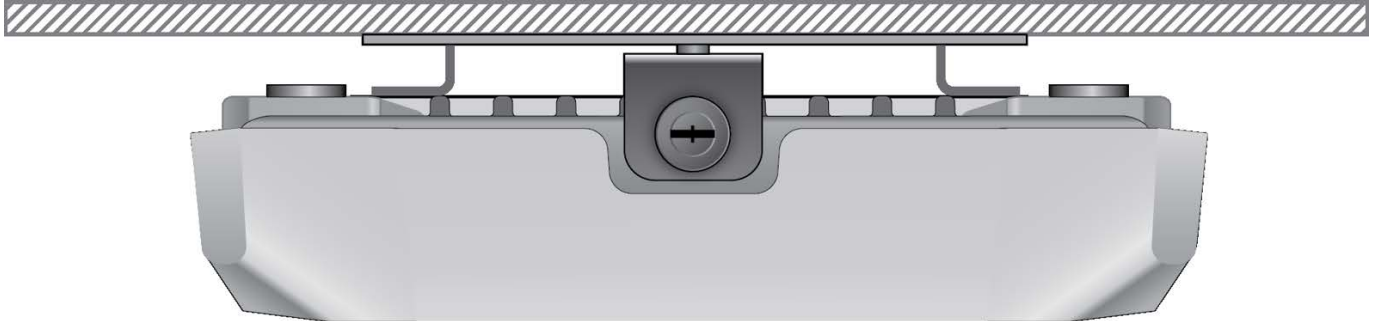
Depending on the installation location, connecting or removing cables may be difficult after the device is installed.

- Verify that the Ethernet cable(s) is long enough to connect to its destination port(s) before installing the access

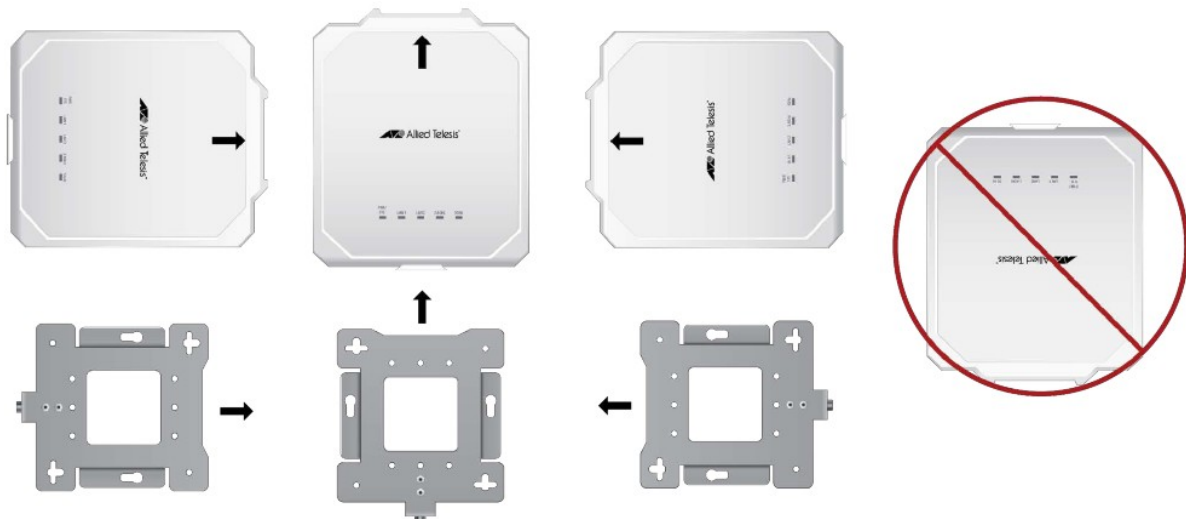
point. Once the installation is complete, it is physically difficult to change the cables.

- 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 58 for the AC adapter specifications.)
- Refer to Figure 12 on page 37 for approved orientations of the wireless access point on a table, wall, or ceiling.

### Ceiling Installation



### Wall Installation



### Table Installation

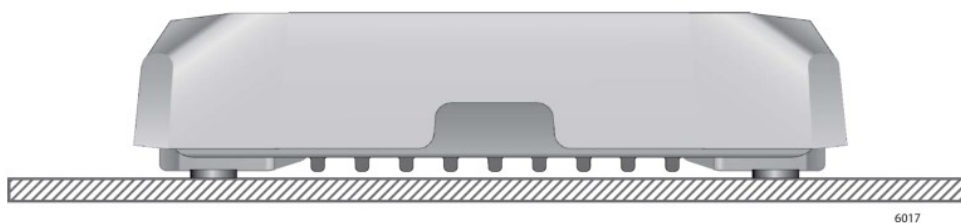


Figure 12. Approved Installation Orientations on a Ceiling, Wall, or Table

### Installing the Access Point on a Table

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

- TQ6702 GEN2 Access Point
- One or two Ethernet cables

- 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 LAN1 and LAN2 ports. Refer to “Connecting Ethernet Cables to LAN1 and LAN2 Ports” 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 Ethernet Cables to LAN1 and LAN2 Ports” 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:

- TQ6702 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 13.

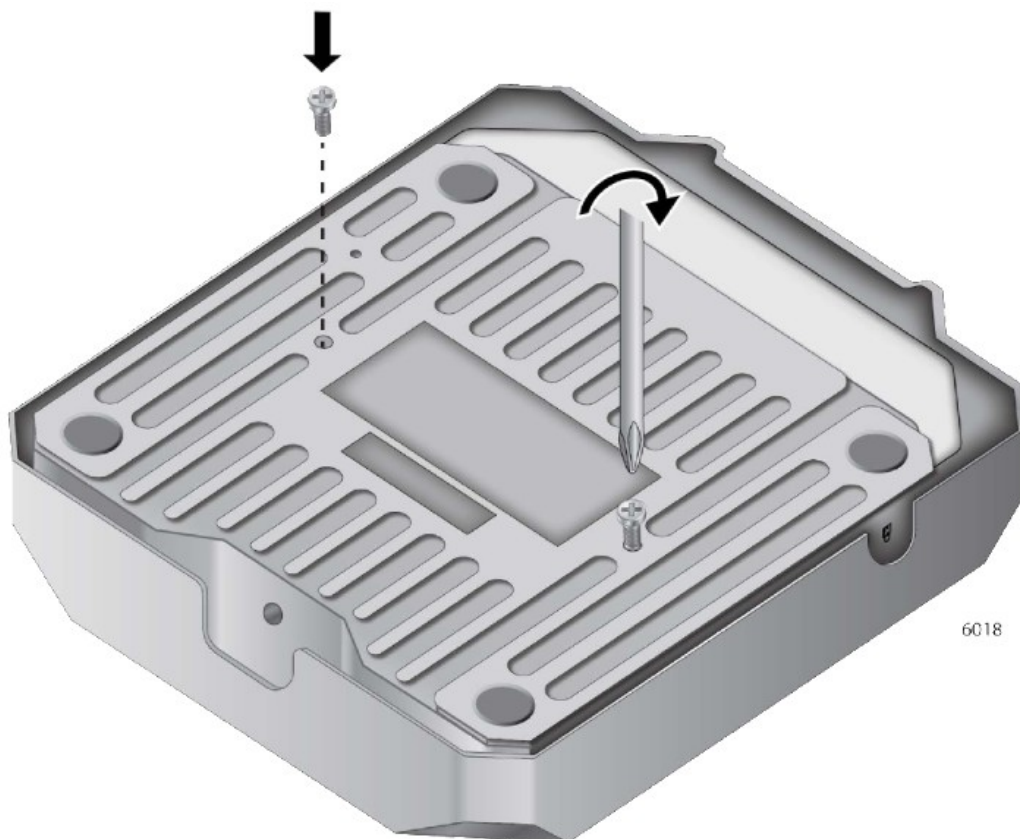


Figure 13. Attaching the Bracket Screws to the Access Point

The screw collar provides the proper spacing for the mounting bracket beneath the screw head. See Figure 14.



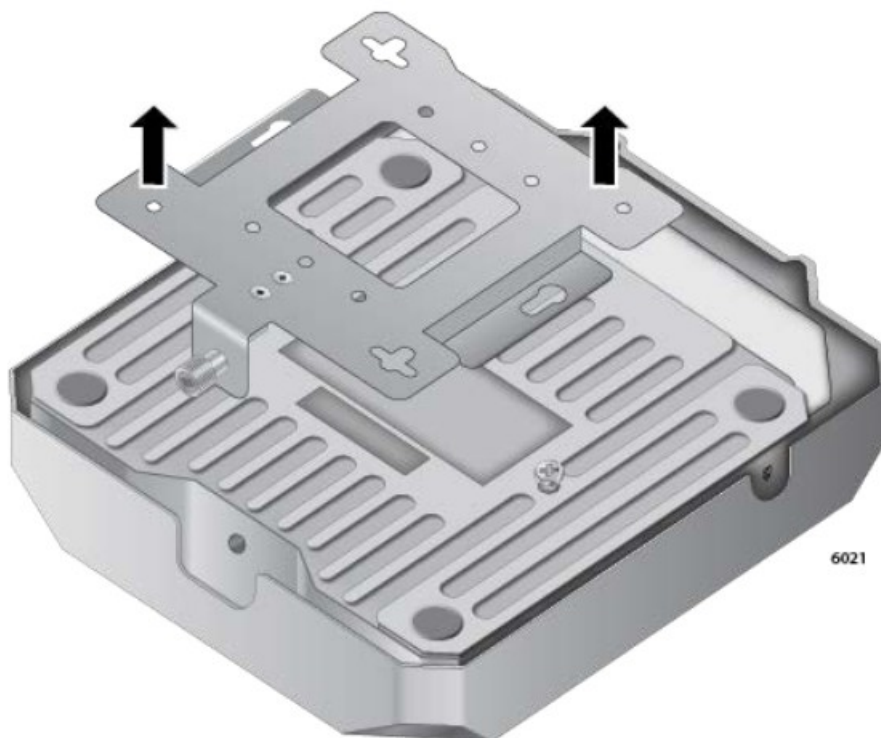
Figure 14. Panel Screw

3. Make sure that the mounting bracket fits to the access point by sliding the bracket beneath the screws as shown in Figure 15.



**Figure 15. Attaching the Mounting Bracket on the Access Point**

4. Slide the mounting bracket forward and remove it from the access point. See Figure 16.



**Figure 16. 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 12 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 17.

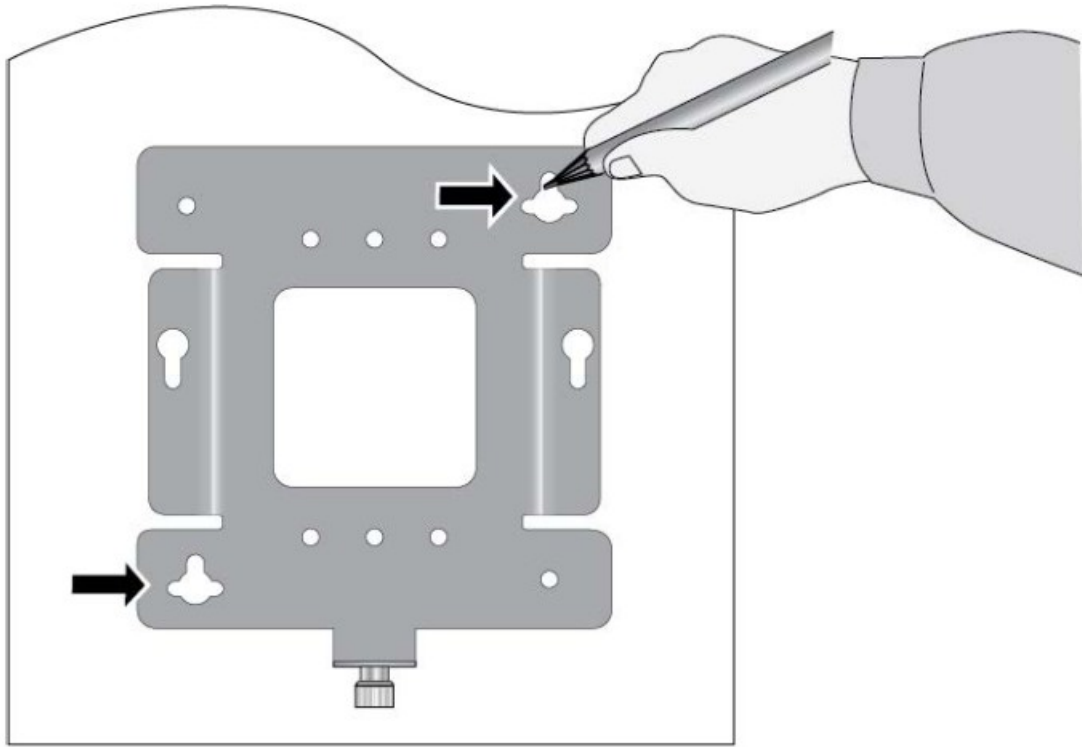


Figure 17. Marking the Holes for the Key-Hole Slots

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 18.

**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.

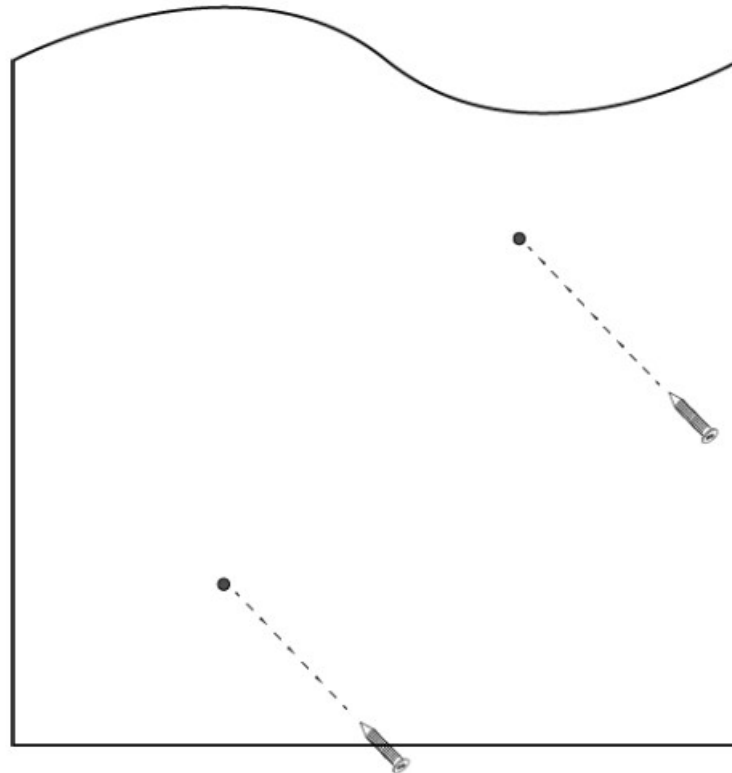
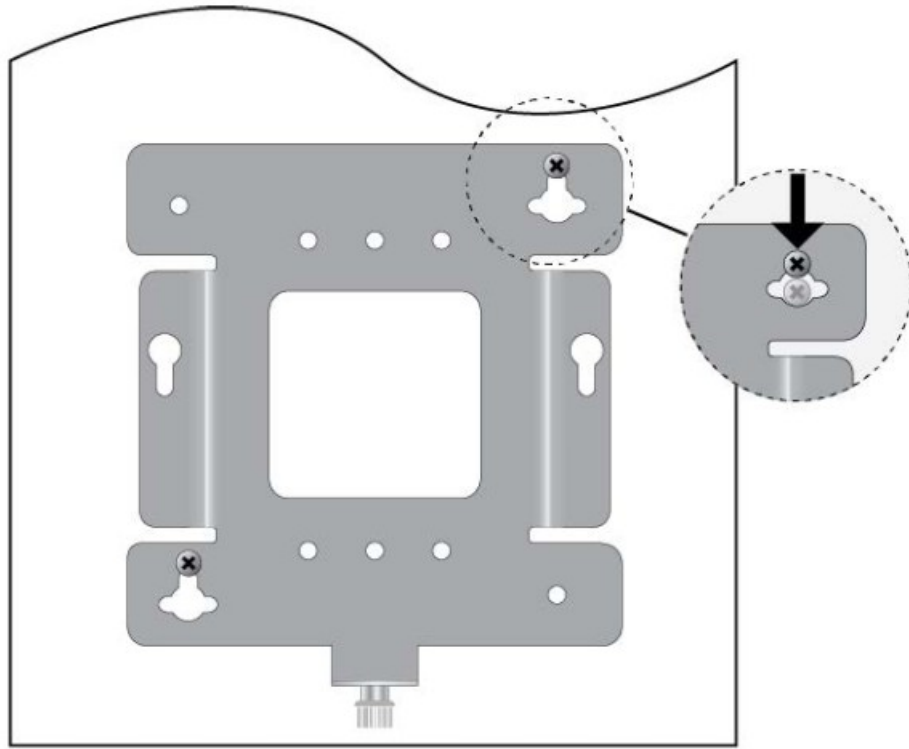


Figure 18. Installing Two Screws

6. Insert the openings of the bracket key-hole slots under the two screw heads and slide the bracket into the

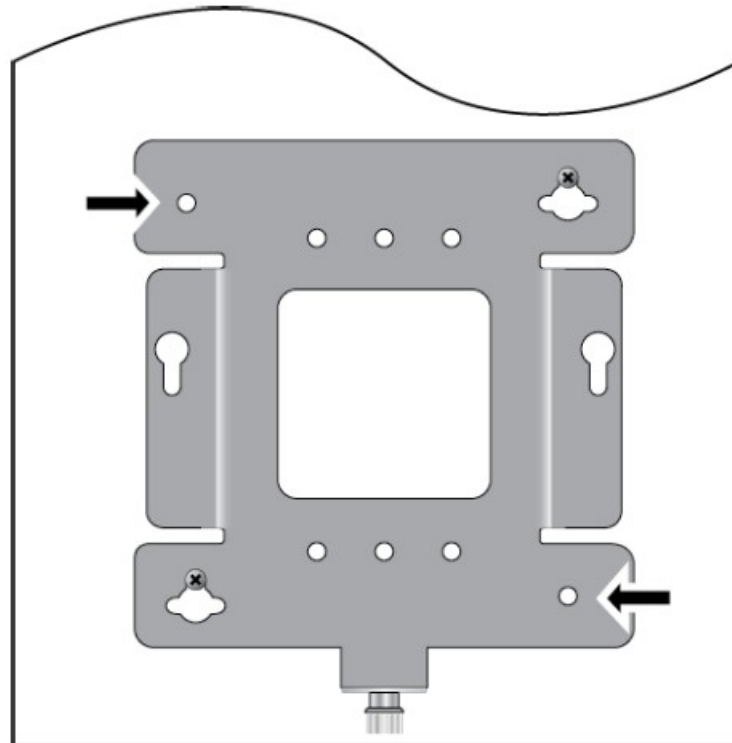


narrow end of the key-hole slot openings. See Figure 19.



**Figure 19. Installing the Mount Bracket On the Screws**

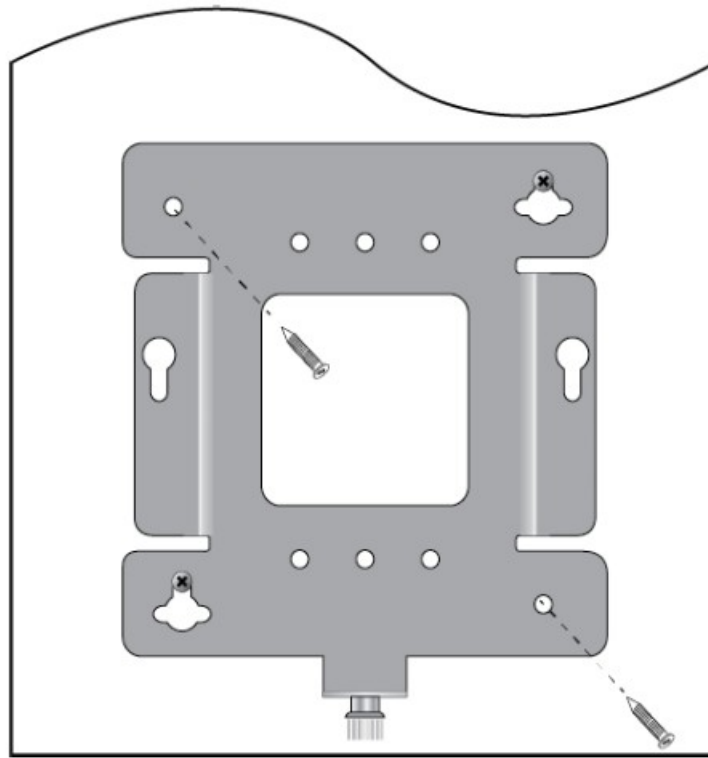
7. Tighten the screws snugly onto the bracket.
8. To secure the mounting bracket, pre-drill holes through the two bracket mounting holes opposite the key-hole slots. See Figure 20.



**Figure 20. 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 21.





**Figure 21. Securing the Mount Bracket**

10. Go to “Connecting Ethernet Cables to LAN1 and LAN2 Ports” on page 46.

### **Connecting Ethernet Cables to LAN1 and LAN2 Ports**

This section describes the instructions for connecting Ethernet cables to the LAN1 and LAN2 ports.

#### **Guidelines**

Review the following guidelines before connecting cables to the LAN1 and LAN2 ports:

- For information on cable specifications, see “Cable Requirements” on page 26.
- If you are installing the access point on a ceiling or wall, you might find it easier to connect the cables before placing the unit on the mounting bracket.
- You must use port LAN1 if you are connecting only one LAN port to the network.
- To power the access point through PoE+ LAN port(s), see “PoE+ Power Requirements” on page 58.
- To use both LAN1 and LAN2 ports, you have to connect them to the same network device. The device must support static LAGs.
- The default setting for the LAN2 port and static LAG on the wireless access point is disabled. You enable them with the on-board web browser management interface. For instructions, see the TQ6000 GEN2 Management Software User’s Guide.

**Note** Do not enable the LAN2 port until you have configured the other network device for the static LAG.

### **Connecting the Ethernet Cables to LAN Ports**

To connect the network cables, perform the following procedure:

1. To cable LAN1 port, connect an Ethernet cable into the port. The cable requirements are in “Cable Requirements” on page 26. Refer to Figure 22.

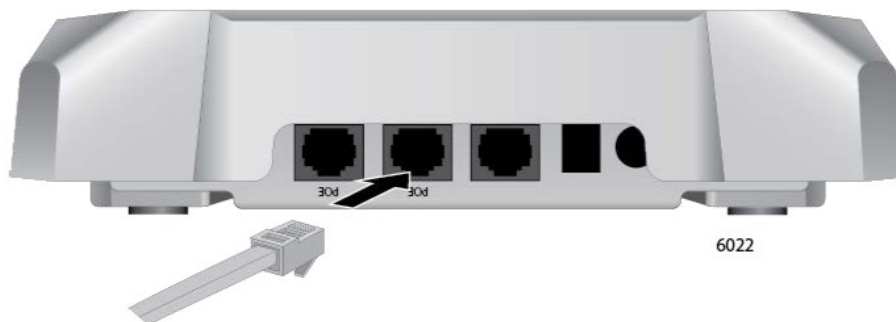


Figure 22. Connecting an Ethernet Cable to the LAN1 Port

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. To use LAN2 port in the static LAG or Cascade mode, connect a second Ethernet cable to the port. See Figure 23.

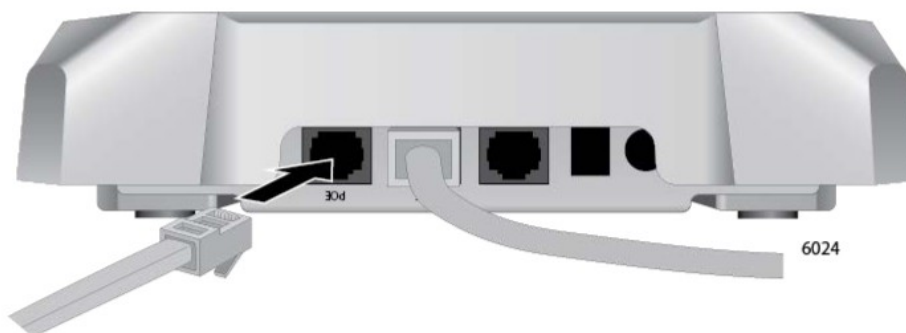


Figure 23. Connecting the Ethernet Cable to the LAN2 Port

4. Connect the other end to a network device. To use the port as a static LAG with the LAN1 port, connect it to the same router or switch as LAN1 port. To use it in the Cascade mode, connect it to a different device. For an overview, refer to “Static Link Aggregation” on page 23 and “Cascade Mode” on page 24.

**Note** The default setting for the LAN2 port is disabled. To set it to the Static LAG or Cascade mode, use the on-board web browser management interface, explained in the TQ6000 GEN2 Management Software User Guide.

5. 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 LAN1 or/and LAN2 ports, 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 DC connector of the power adapter into the DC IN jack on the access point. Refer to Figure 24.



**Figure 24. 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**

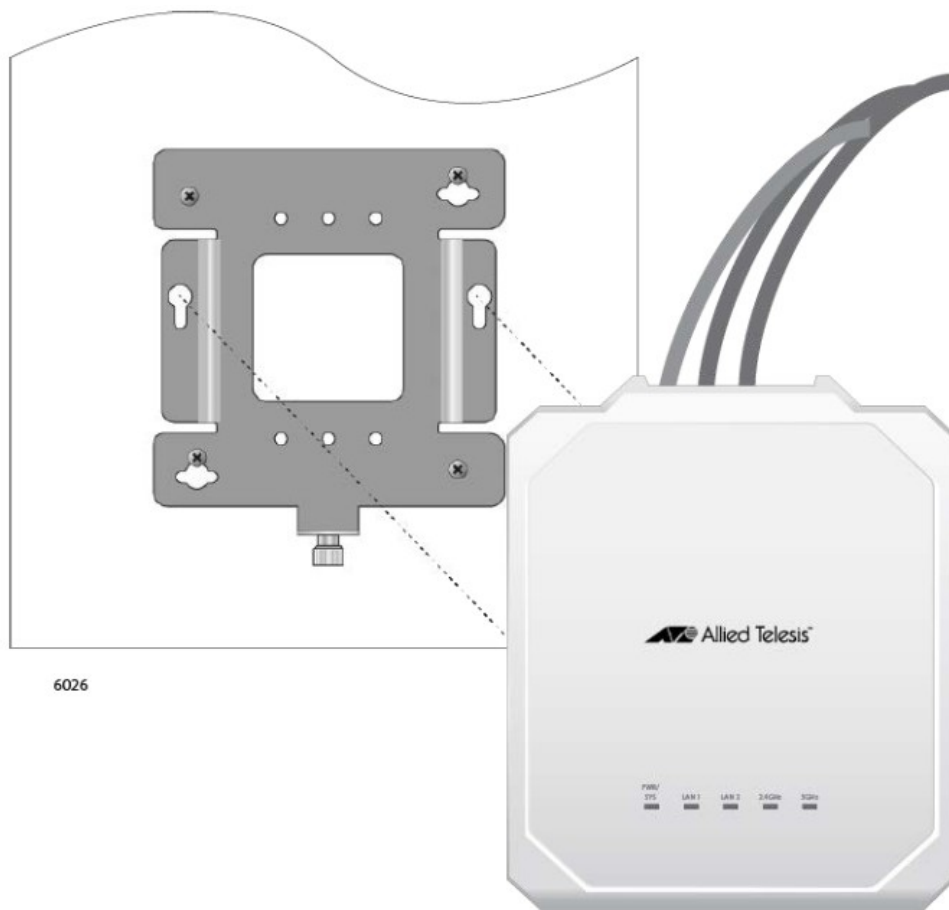
The Power Switch controls power from the AC power supply. It does not control PoE+ on the LAN1 and LAN2 ports.

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:

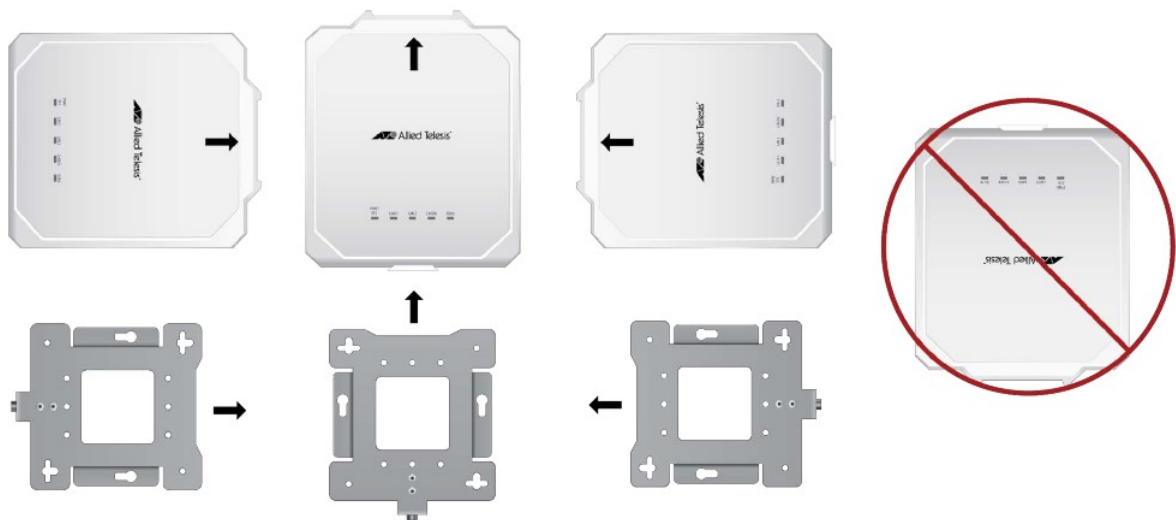
1. Align the bottom of the access point over the bracket so that the two screws on the bottom of the device fit into the bracket keyholes. Refer to Figure 25. (These are the two access point chassis screws installed in “Pre-fitting the Mounting Bracket on the Access Point” on page 40.)



**Figure 25. 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 26 on page 50 for the access point and bracket orientations.



**Figure 26. Seating the Access Point on the Mounting Bracket**

3. Tighten the thumbscrew to secure the access point to the mounting bracket. Refer to Figure 27.

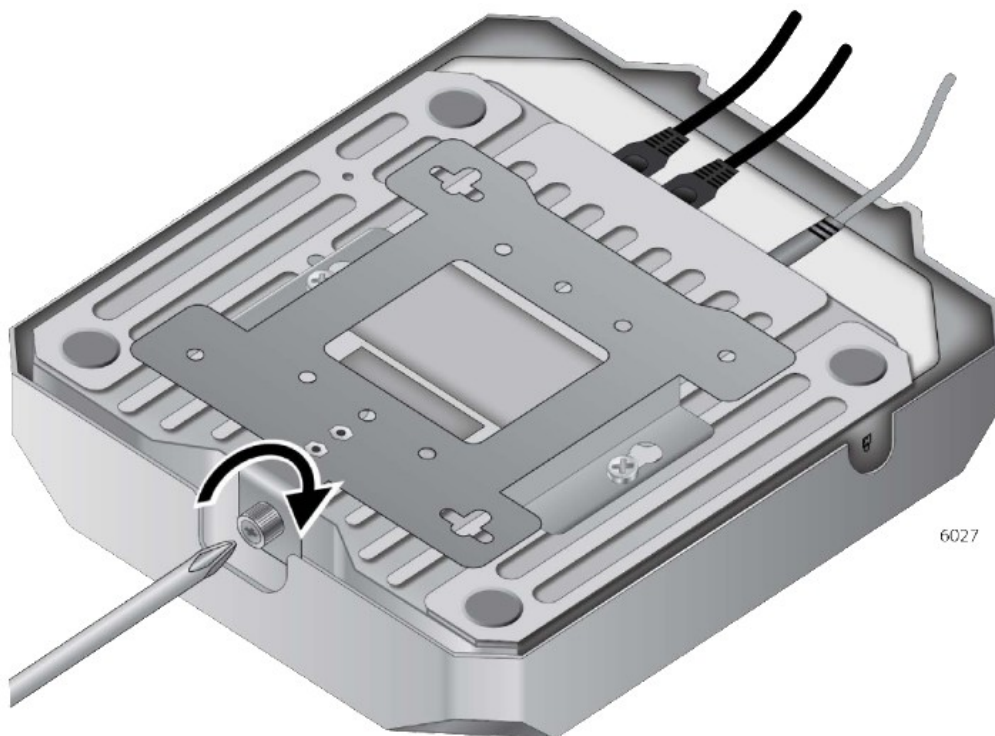


Figure 27. Tightening the Mounting Bracket Thumbscrew

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 28.

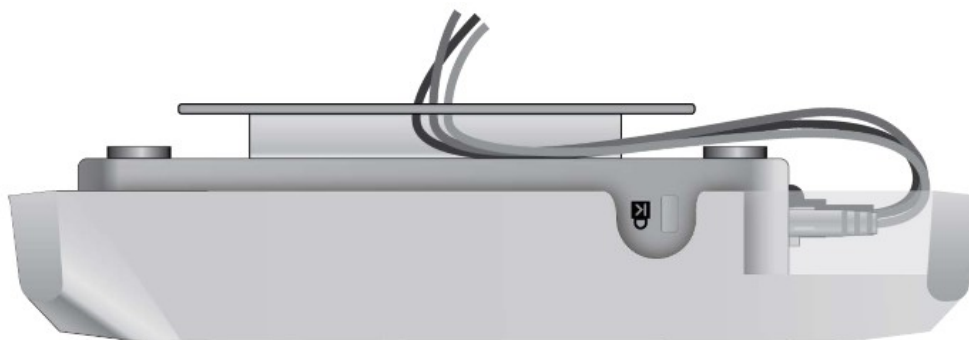


Figure 28. Fitting the Cables in the Cable Hide

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 29 for the Kensington lock port location.



**Figure 29. 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 TQ6000 GEN2 Management Software User’s Guide.

**Note** You can access the TQ6702 GEN2-R model using the Console port, in addition to using the Web User Interface. To start a management session via the Console port of the TQ6702 GEN2-R model, see “Starting a Local Management Session” on page 55.

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 for the TQ6702 GEN2 and TQm6702 GEN2 model; for the TQ6702 GEN2-R model: 192.168.1.1.

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 IP address:
    - TQ6702 GEN2 and TQm6702 GEN2: 192.168.1.230
    - TQ6702 GEN2-R: 192.168.1.1
  - If your network has a DHCP server, enter the IP address the DHCP server assigned to the access point.

The device displays the login prompt. For the TQ6702 GEN2 or TQm6702 GEN2 device, see Figure 30 on page 54 and Figure 31 on page 54 as examples.

The image shows a login prompt for the TQ6702 GEN2 device. It features a user icon and a 'User ID' label next to a text input field. Below this is a key icon and a 'Password' label next to another text input field. At the bottom, there is a blue button with the text 'Login' in white.

Figure 30. Login Prompt for TQ6702 GEN2

The image shows a login prompt for the TQ6702 GEN2-R device. It features the Allied Telesis logo at the top. Below the logo are two text input fields, one labeled 'Username' and one labeled 'Password'. At the bottom, there is a large blue button with the text 'Sign in' in white. In the bottom right corner, there is a small link labeled 'About'.

Figure 31. Login Prompt for TQ6702 GEN2-R

3. Enter the login information.

- Username: manager
- Password: friend

**Note** The user name and password are case-sensitive.

4. Click the Login or Sign in button.

The first management page appears.

### Starting a Local Management Session

Note This section is for the TQ6702 GEN2-R model only.

This procedure explains how to start a local management session on the TQ6702 GEN2-R device. It assumes that you powered on the device and waited about two minutes for it to initialize its operating software.

**Note** A management session of the TQ6702 GEN2-R device can be either a local session from the Console port, as explained in this section, or a session from the Web User Interface. For a session from the Web User Interface, see “Starting the First Management Session” on page 53.

To start a local management session, perform the following procedure:

1. Connect the RJ-45 end of the management cable to the Console port on the TQ6702 GEN2-R device.
2. Connect the other end of the cable to an RS-232 port on a terminal or personal computer with a terminal emulation program.
3. Configure a terminal or terminal emulation program as follows:

- Baud rate: 115200 bps
- Data bits: 8
- Parity: None
- Stop bit: 1
- Flow controller: None
- Emulation: VT100

**Note** The port settings are for a DEC VT100 or ANSI terminal, or an equivalent terminal emulator program.

4. Press Enter. You are prompted for a user name and password.

5. Enter the login information:

- Username: manager
- Password: friend

Note User names and passwords are case sensitive.

The local management session starts when the User Exec mode prompt, shown in Figure 32. is displayed.

awplus>

Figure 32. User Exec Mode Prompt

**Note** The AlliedWare™ Plus operating system is installed on the TQ6702 GEN2-R device.

## Appendix A Technical Specifications

This appendix contains the specifications for the TQ6702 GEN2 Access Points in the following sections:

- “Physical Specifications”
- “Environmental Specifications”
- “Power Specifications” on page 58
- “Cable Specifications” on page 59
- “LAN Ports Specifications and Pinouts” on page 60

### Physical Specifications

Table 2. Physical Specifications

Parameter	Specification
Dimensions (W x D x H)	200 mm X 240 mm X 45 mm (7.9 in. x 9.4 in. x 1.8 in.)
Weight without mounting bracket	1.2 Kg (2.6 lbs)
Weight with mounting bracket	1.4 Kg (3.1 lbs)

### Environmental Specifications

Table 3. Environmental Specifications



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	0% 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 4 lists the power requirements for an external AC/DC adapter.

Table 4. 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	4:00 AM
Temperature Range	0° C to 50° C (32° F to 122° F)
Maximum Operating Altitude	3000 m (9843 ft)

### Note

If you decide to 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 5 lists the PoE+ specifications for the PoE LAN ports.

Table 5. PoE+ Power Specifications on LAN Ports

Maximum Power Consumption	25.5 watts
Rated Voltage	DC 48V
Rated Current	0.67A

**Note** Allied Telesis recommends using UL-certified PoE injectors.

### Cable Specifications

The minimum cable requirements for ports LAN1 and LAN2 are listed here.

- 100Mbps ports: Standard TIA/EIA 568-B-compliant Category 3 shielded or unshielded cabling.
- 1G/2.5G/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 Ports Specifications and Pinouts**

**Port Specifications**

The access point port specifications are shown in Table 6.

Table 6. LAN Port Specifications

Connector	Specification
PoE standard – LAN1 and LAN2	IEEE 802.3at (class 4)

**Port Pinouts**

The pin signal definitions for ports LAN1 and LAN2 are given here. Figure 33 illustrates the pin layout of the ports.

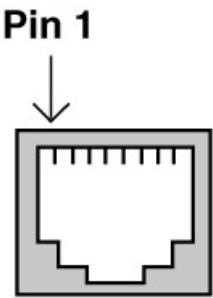


Figure 33. Pin Layout for RJ45 Connector on LAN Port

Table 7 lists the pin signals.

Table 7. Pin Signals for 100M/1G/2.5G/5G Base-T Connectors

Pin	100 Mbps MDI Signal	100 Mbps MDI-X Signal	1G/2.5G/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 62
- “Industry Canada Statement” on page 64
- “Europe – EU Declaration of Conformity” on page 66
- “UK – UKCA Declaration of Conformity” on page 67

### 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

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 access points should be installed and operated with minimum distance 22 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.

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

### 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;

(ii) the maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall be such that the equipment still complies with the e.i.r.p. limit;

(iii) the maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits specified for point-to-point and non-point-to-point operation as appropriate; and  
(iv) the worst-case tilt angle(s) necessary to remain compliant with the e.i.r.p. elevation mask requirement set forth in Section 6.2.2(3) shall be clearly indicated.

(v) Users should also be advised that high-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

#### **Radiation Exposure Statement:**

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 22 cm between the radiator and your body.

#### **Europe – EU Declaration of Conformity**

Hereby, Allied Telesis declares that the radio equipment type [AT-TQ6702 GEN2, AT-TQ6702 GEN2-R, AT-TQm6702 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-TQ6702 GEN2, AT-TQ6702 GEN2-R, and AT-TQm6702 GEN2

	<b>Beamforming</b>	<b>Non-Beamforming</b>
2412-2472 MHz	19.87 dBm	19.94 dBm
5150-5250 MHz	22.87 dBm	22.99 dBm
5250-5350 MHz	22.99 dBm	22.96 dBm
5470-5725 MHz	29.97 dBm	29.83 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 Incheonweg 7, 1437 EK Rozenburg

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).

#### **UK – UKCA Declaration of Conformity**

Hereby, Allied Telesis declares that the radio equipment type [AT-TQ6702 GEN2, AT-TQ6702 GEN2-R, AT-TQm6702 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-TQ6702 GEN2, AT-TQ6702 GEN2-R, and AT-TQm6702 GEN2

	Beamforming	Non-Beamforming
2412-2472 MHz	19.87 dBm	19.94 dBm
5150-5250 MHz	22.87 dBm	22.99 dBm
5250-5350 MHz	22.99 dBm	22.96 dBm
5470-5725 MHz	29.97 dBm	29.83 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

**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).

## Appendix C Radiation Patterns

This appendix contains the following sections:

- “TQ6702 GEN2, TQ6702 GEN2-R, and TQm6702 GEN2 Access points” on page 70

### TQ6702 GEN2, TQ6702 GEN2-R, and TQm6702 GEN2 Access points

Antenna Locations



Figure 34. Antenna Axes on the TQ6702 GEN2, TQ6702 GEN2-R, and TQm6702 GEN2 Access Points

#### Axes on the Access Point

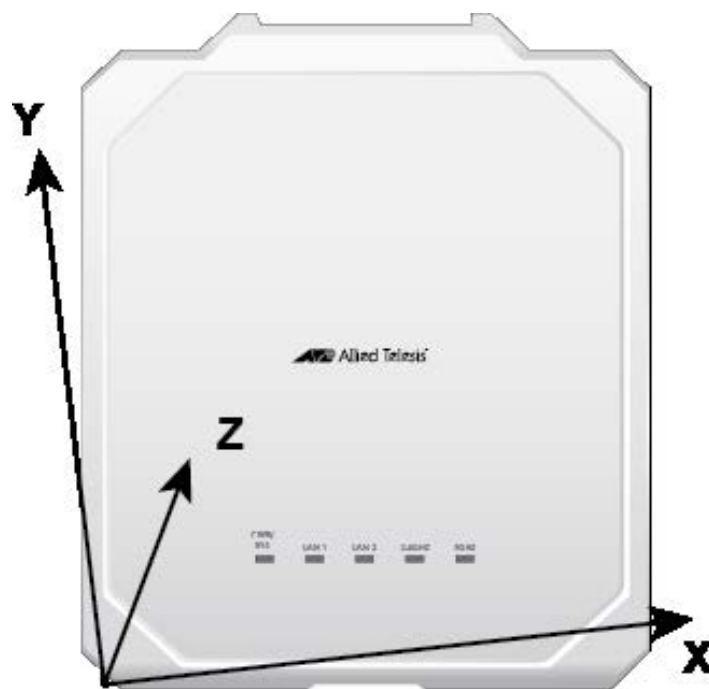
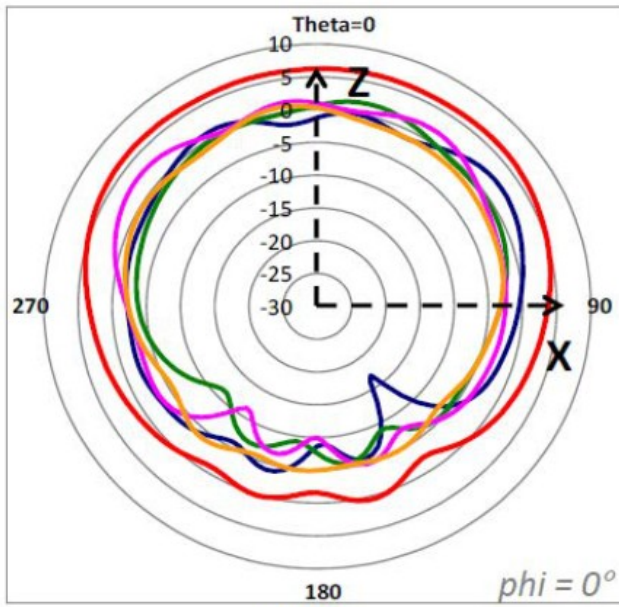


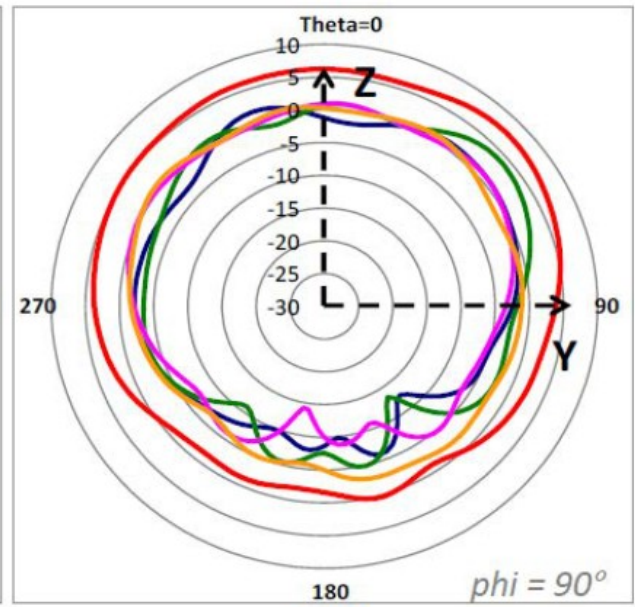
Figure 35. Axes on the TQ6702 GEN2, TQ6702 GEN2-R, and TQm6702 GEN2 Access Points

4x4 2.4G

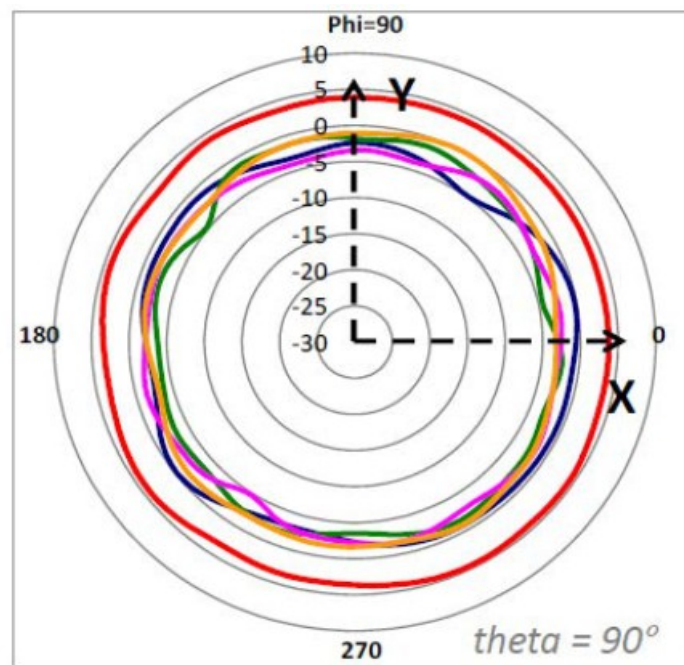
- Directional Gain
- Dual1
- Dual2
- Dual3
- Dual4



X-Z Plane



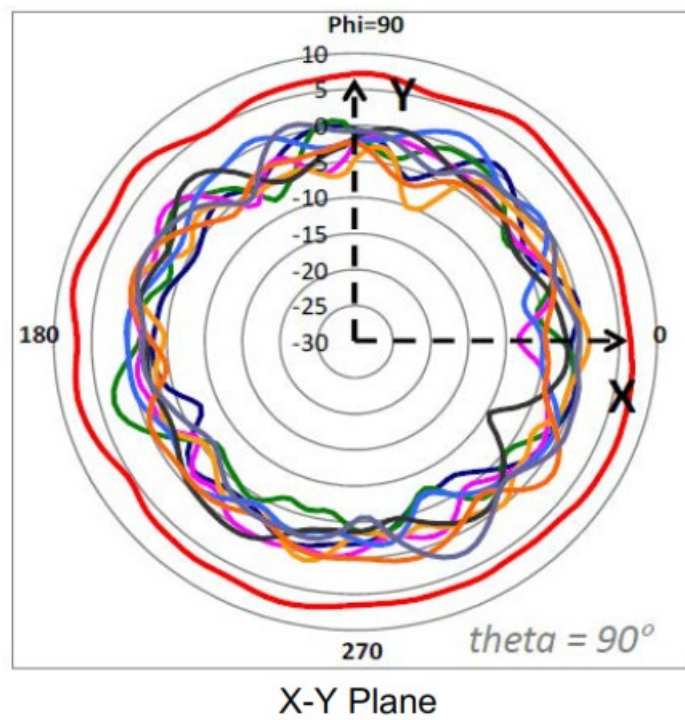
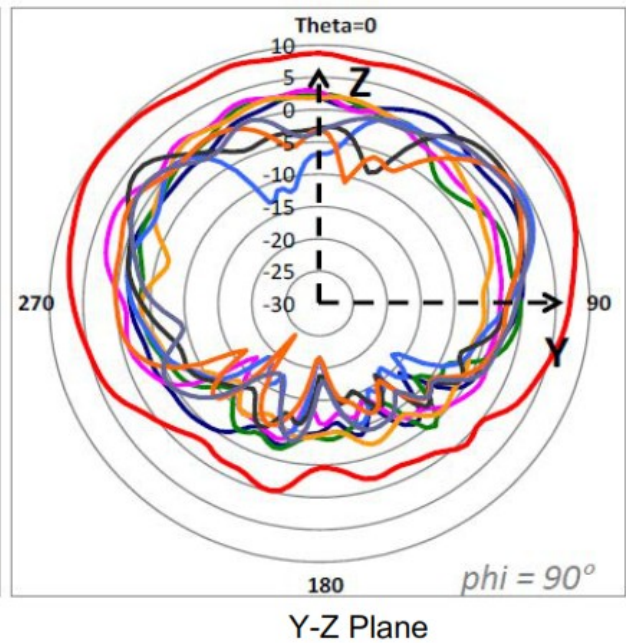
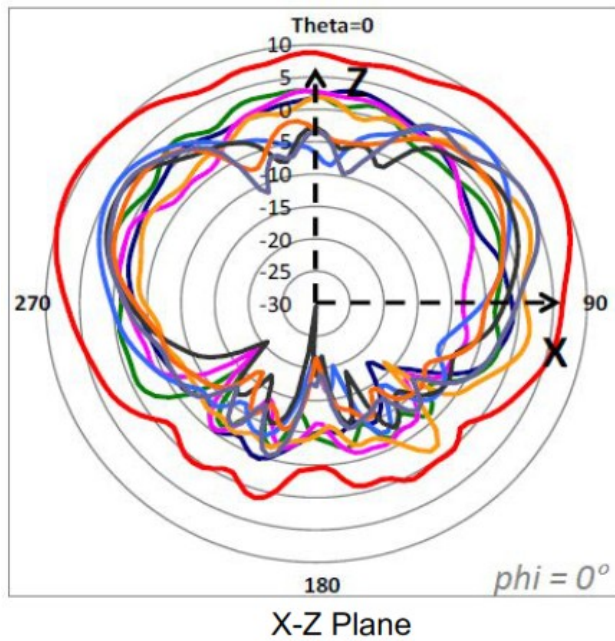
Y-Z Plane



X-Y Plane



- Directional Gain
- Dual1
- Dual2
- Dual3
- Dual4

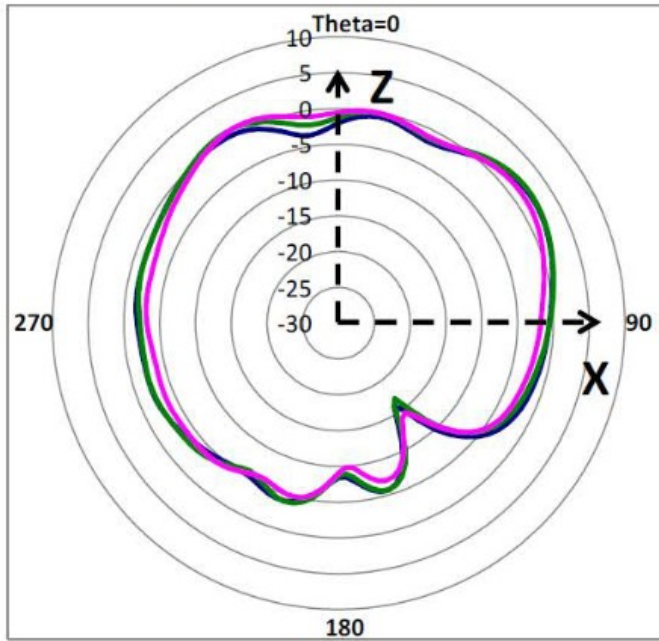


Dual 1 2400MHz, 2450MHz, 2500MHz

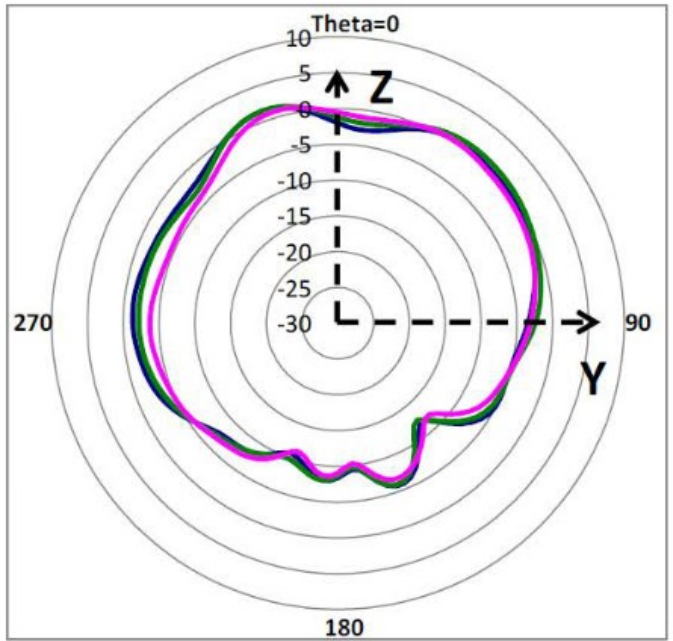


# Dual1 Radiation Pattern

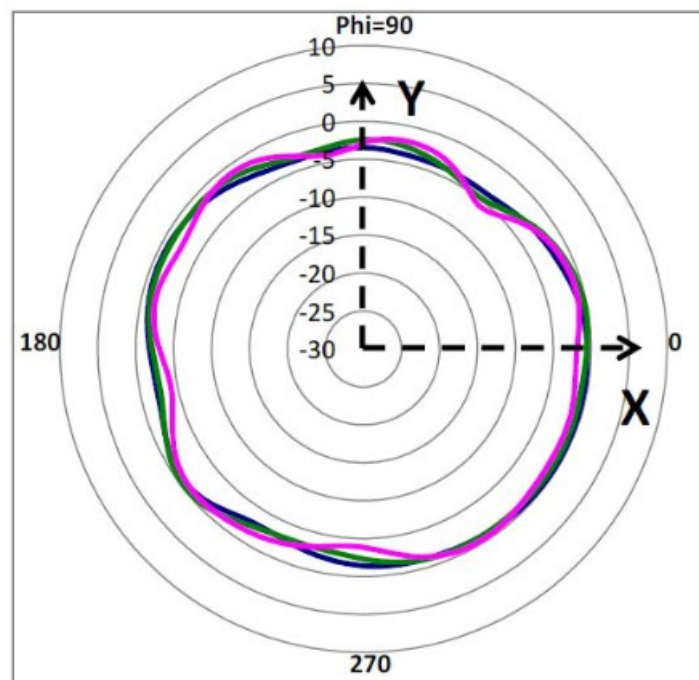
— 2400MHz  
— 2450MHz  
— 2500MHz



X-Z Plane



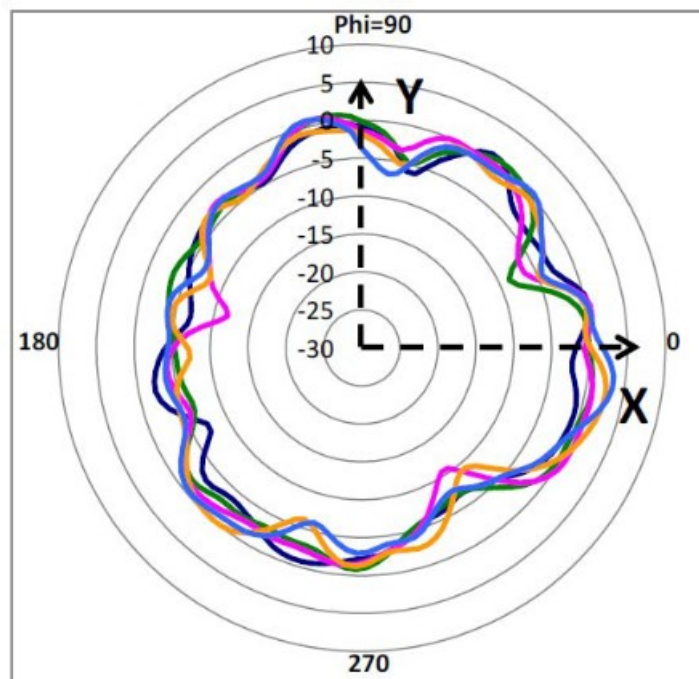
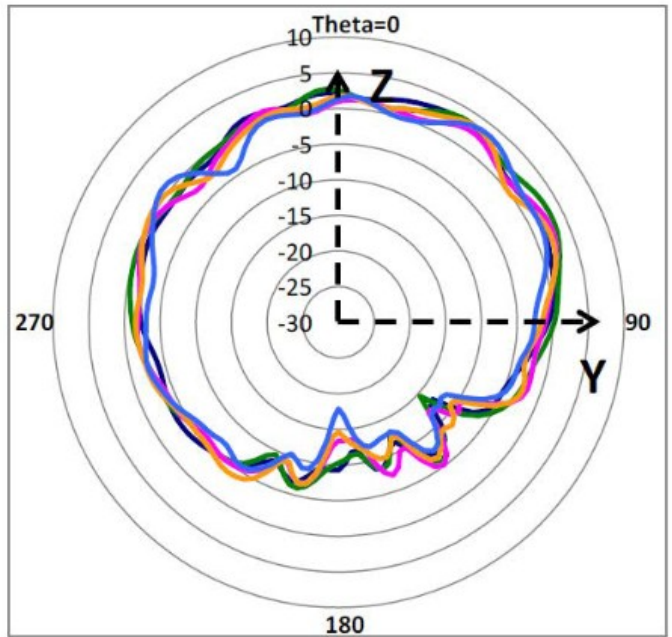
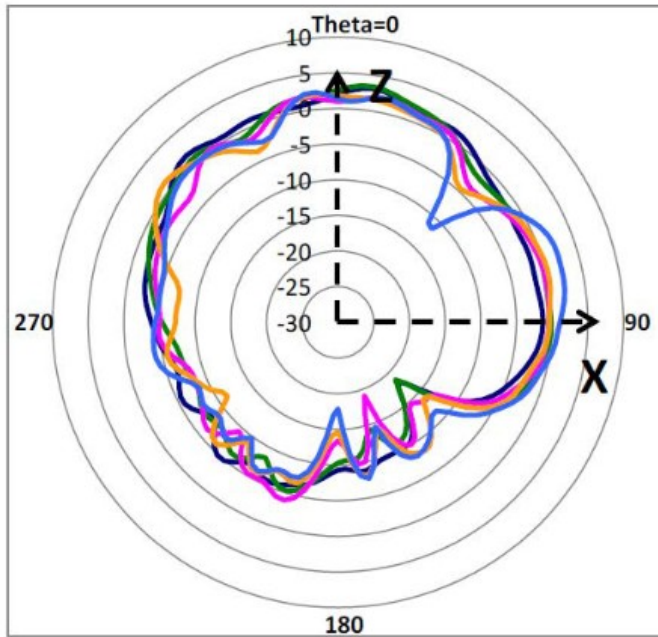
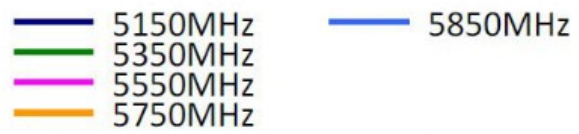
Y-Z Plane



X-Y Plane

5150MHz, 5350MHz, 5550MHz, 5750MHz, 5850MHz

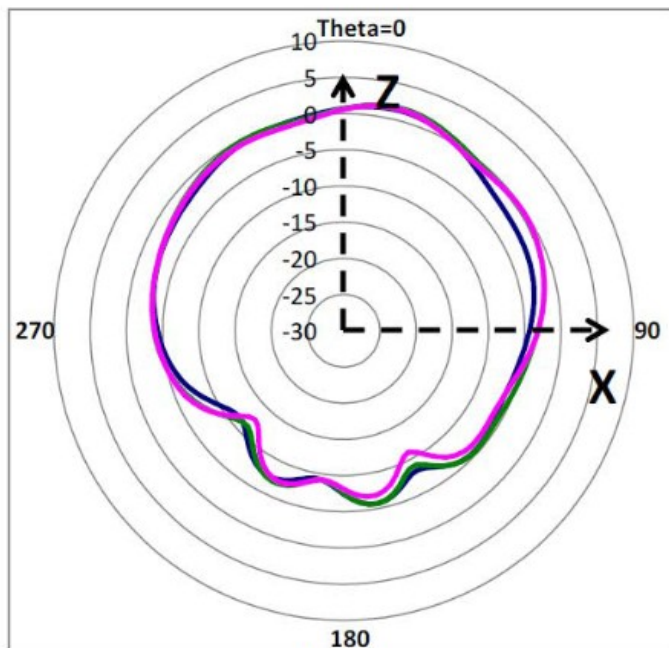
# Dual1 Radiation Pattern



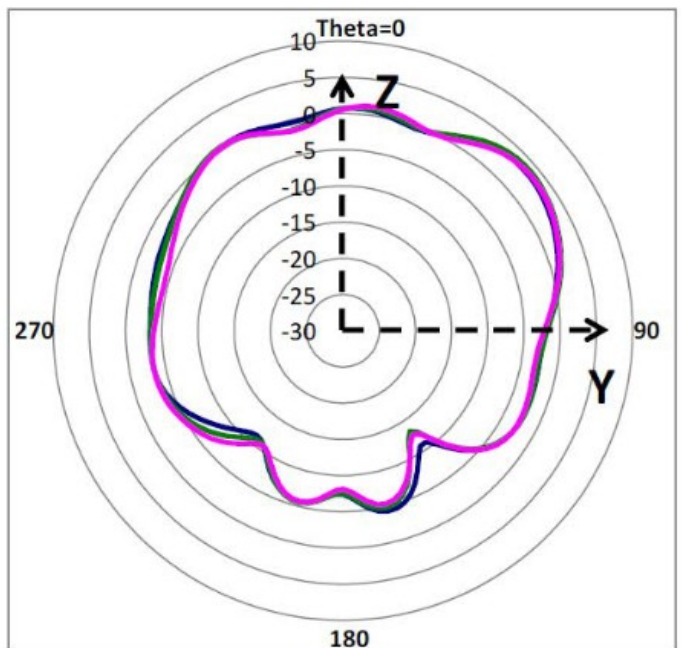
Dual 2 2400MHz, 2450MHz, 2500MHz

# Dual2 Radiation Pattern

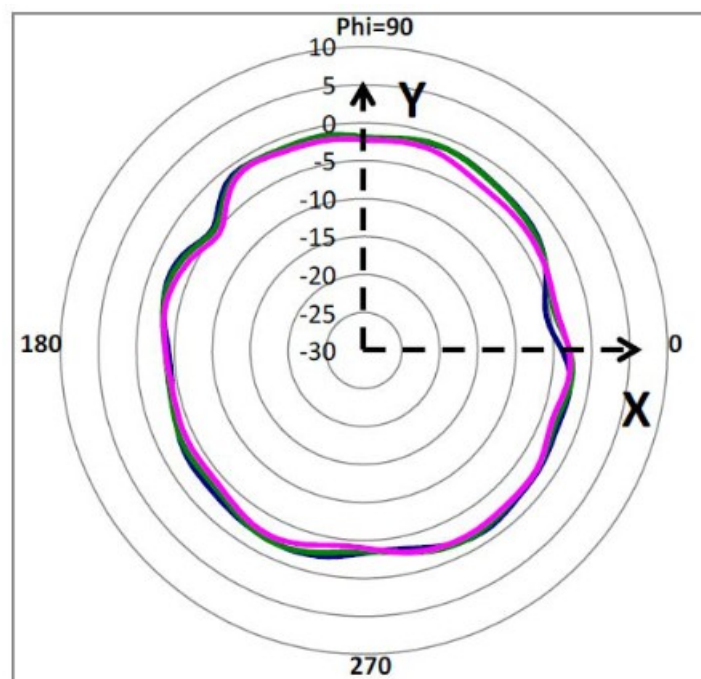
2400MHz  
 2450MHz  
 2500MHz



X-Z Plane



Y-Z Plane



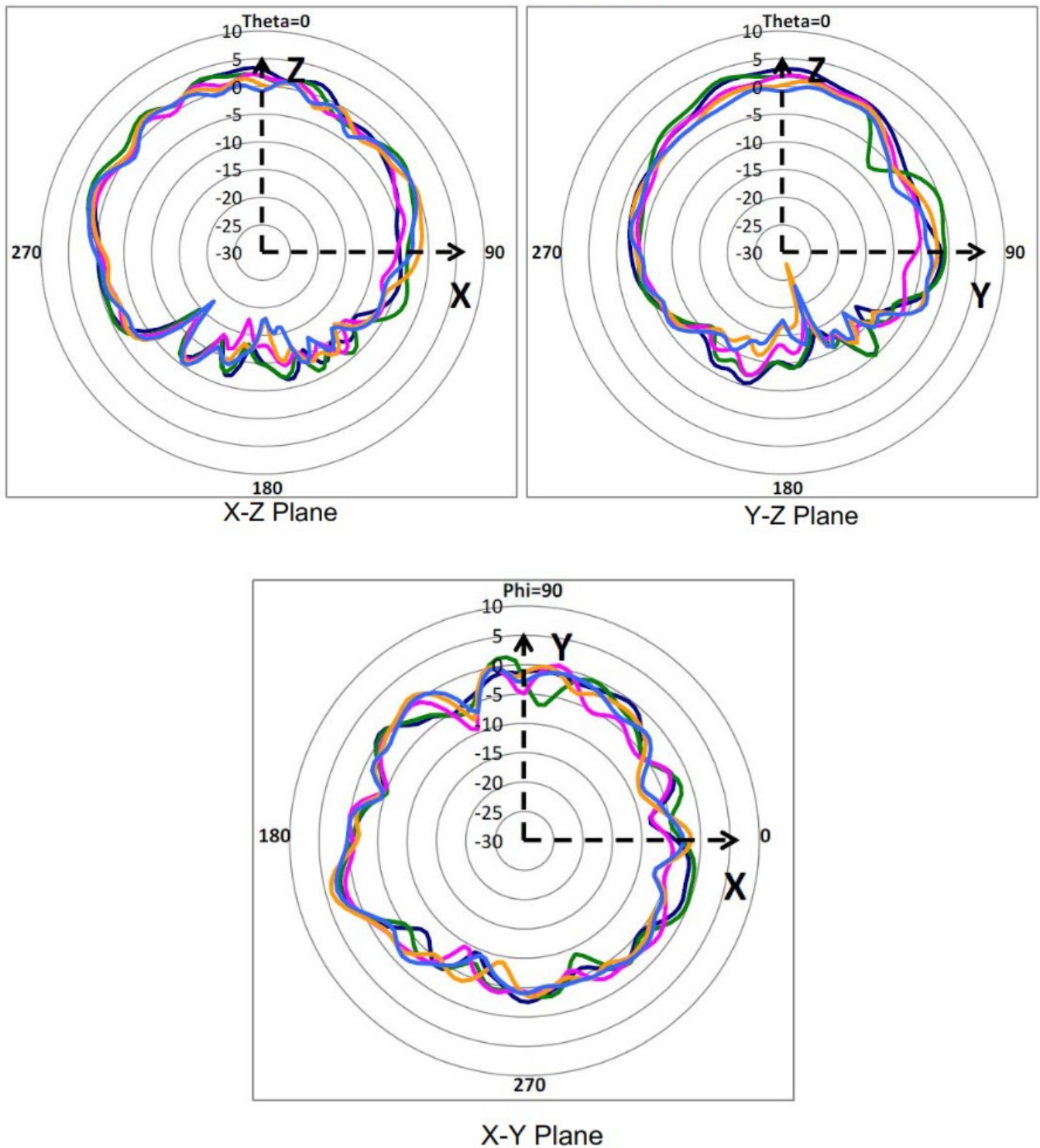
X-Y Plane

5150MHz, 5350MHz, 5550MHz, 5750MHz, 5850MHz



# Dual2 Radiation Pattern

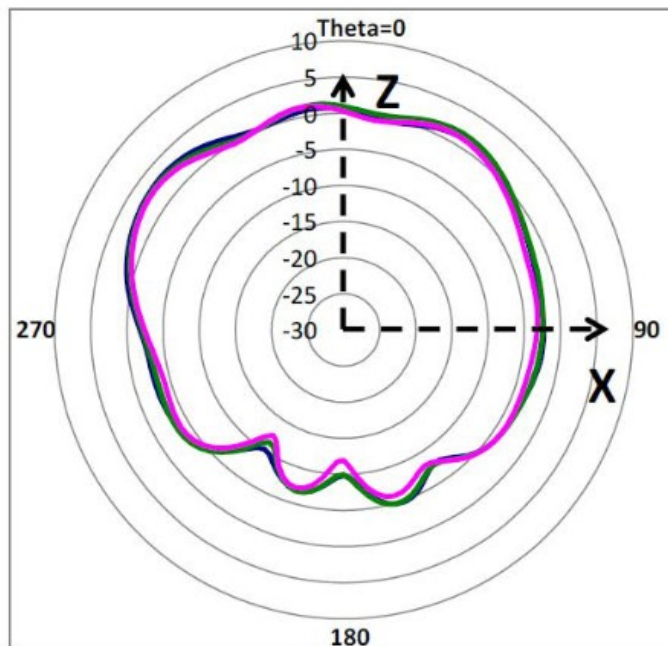
- 5150MHz
- 5350MHz
- 5550MHz
- 5750MHz
- 5850MHz



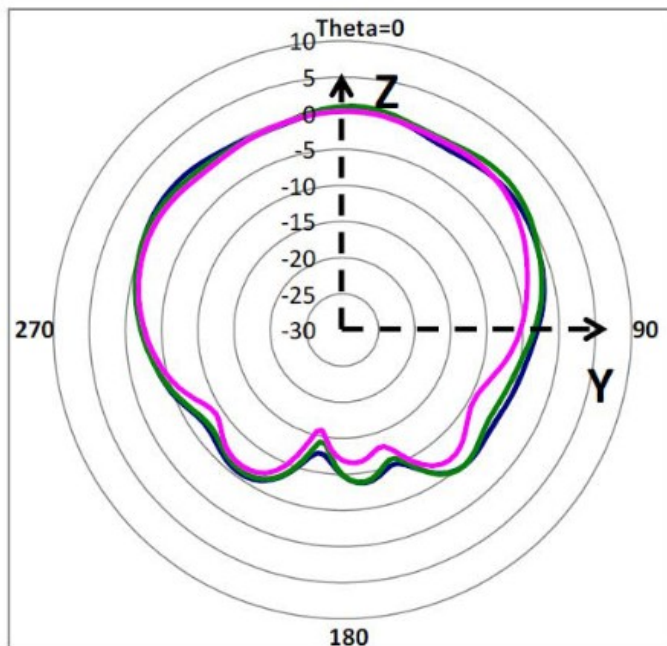
Dual 3 2400MHz, 2450MHz, 2500MHz

# Dual3 Radiation Pattern

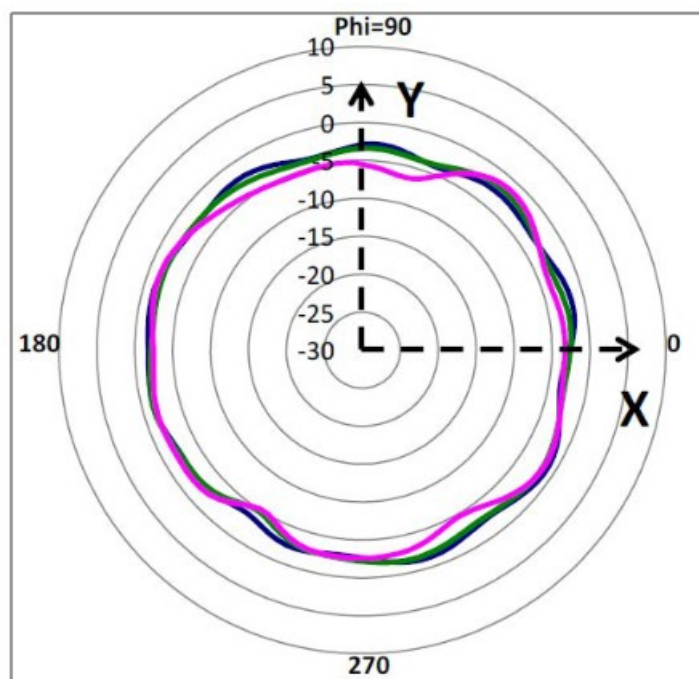
— 2400MHz  
— 2450MHz  
— 2500MHz



X-Z Plane



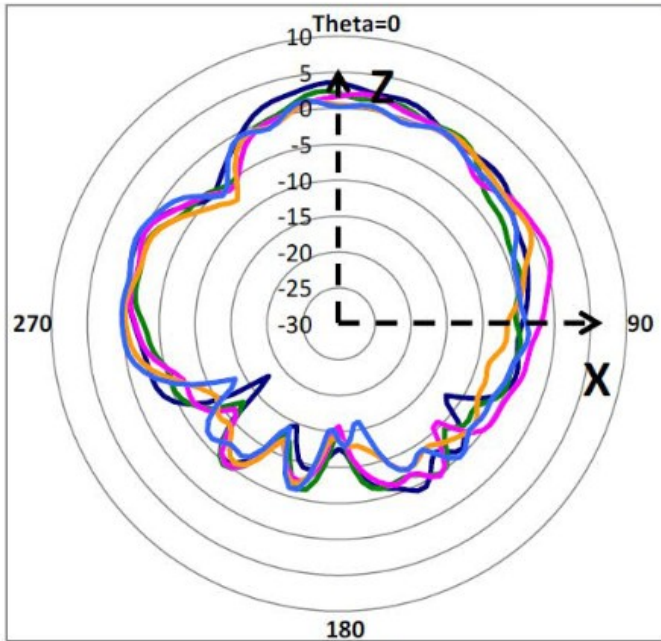
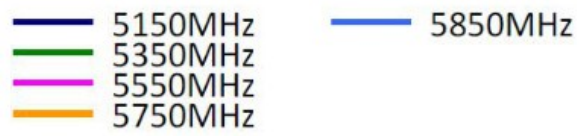
Y-Z Plane



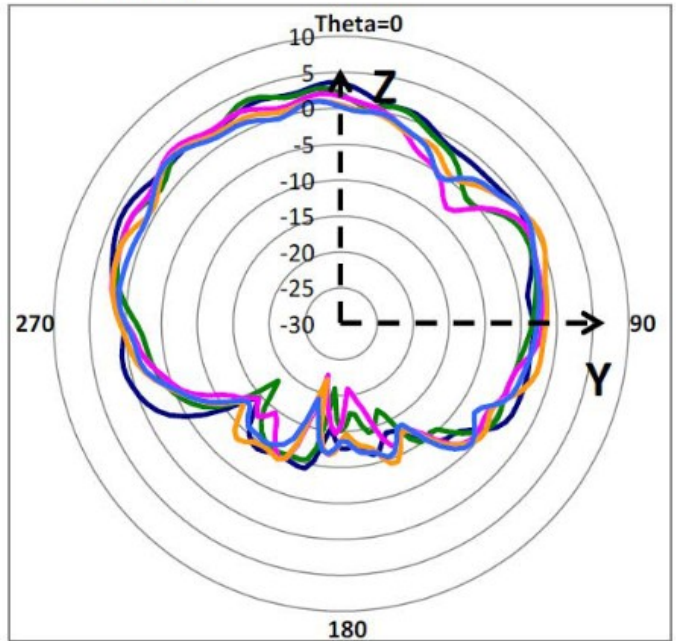
X-Y Plane

5150MHz, 5350MHz, 5550MHz, 5750MHz, 5850MHz

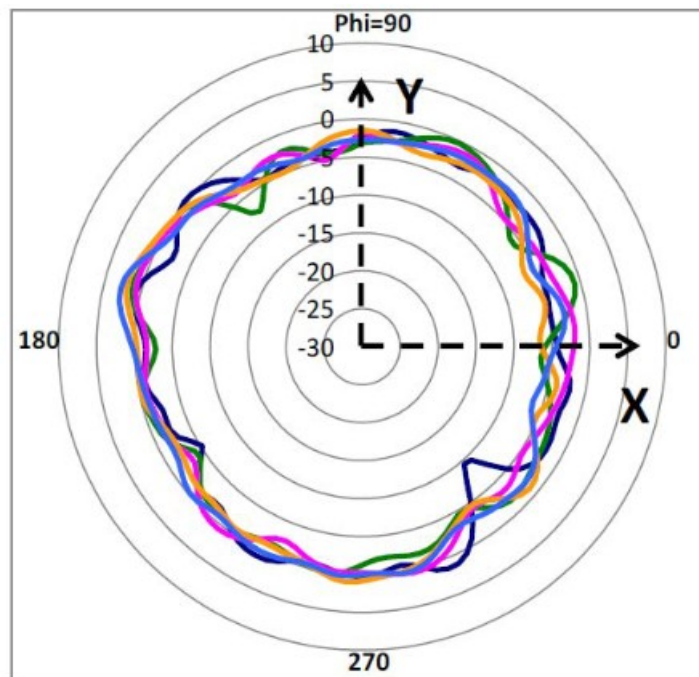
# Dual3 Radiation Pattern



X-Z Plane



Y-Z Plane



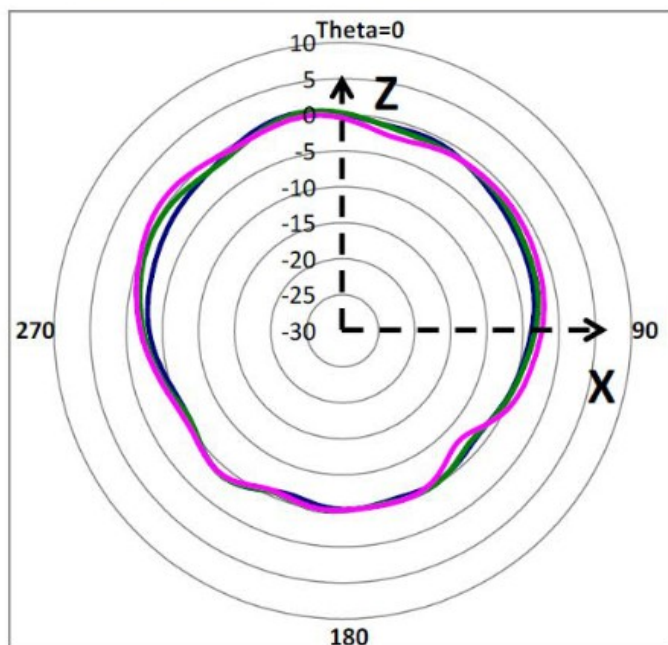
X-Y Plane

Dual 4 2400MHz, 2450MHz, 2500MHz

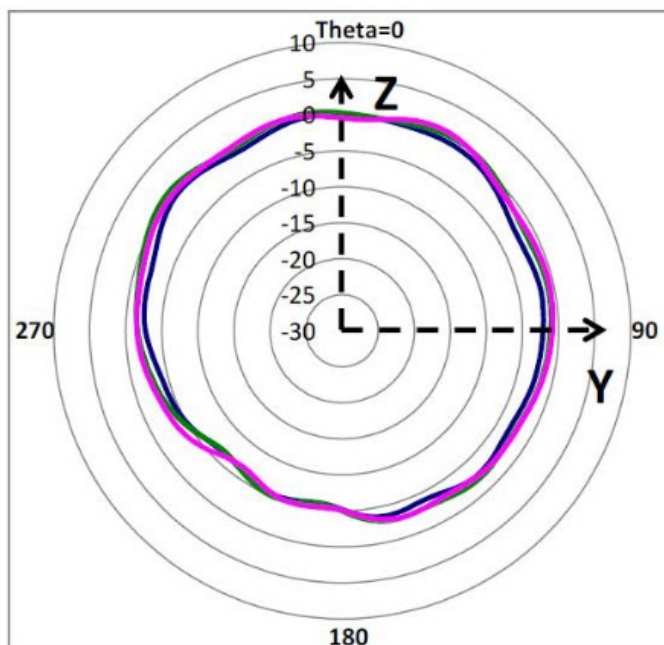


# Dual4 Radiation Pattern

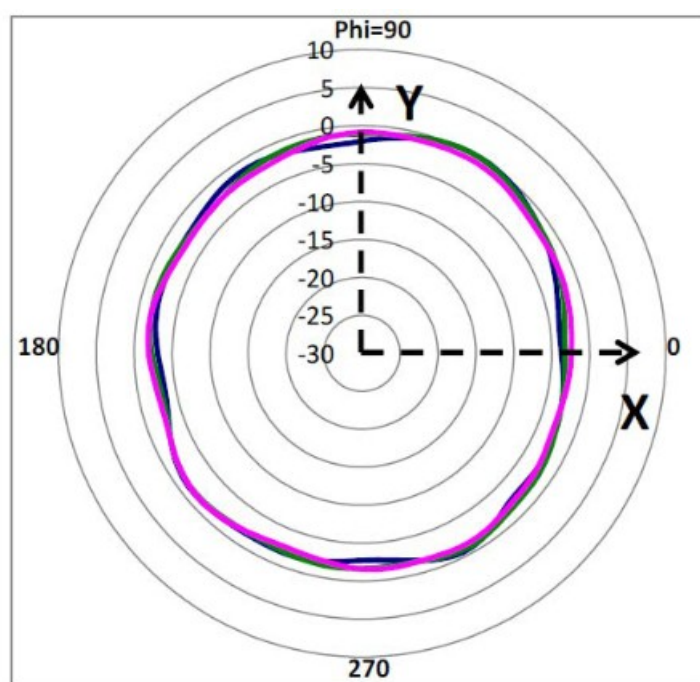
2400MHz  
 2450MHz  
 2500MHz



X-Z Plane



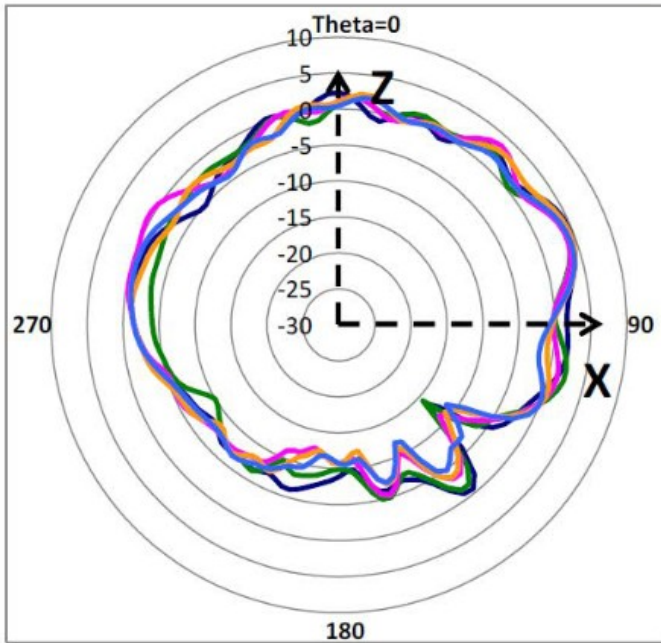
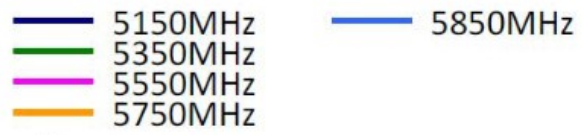
Y-Z Plane



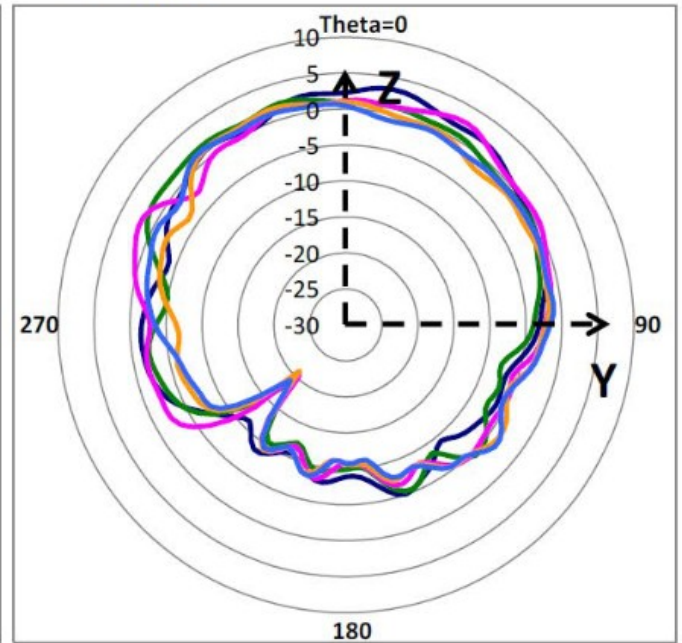
X-Y Plane

5150MHz, 5350MHz, 5550MHz, 5750MHz, 5850MHz

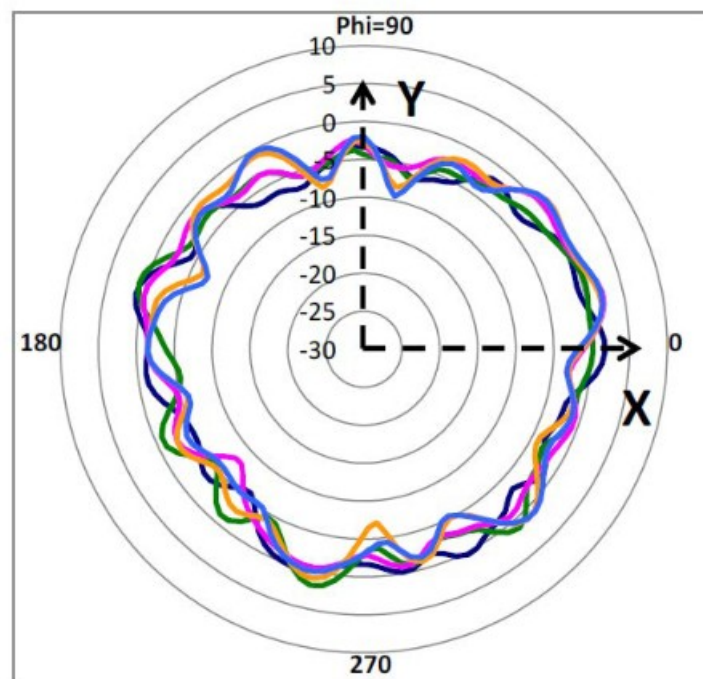
# Dual4 Radiation Pattern



X-Z Plane



Y-Z Plane

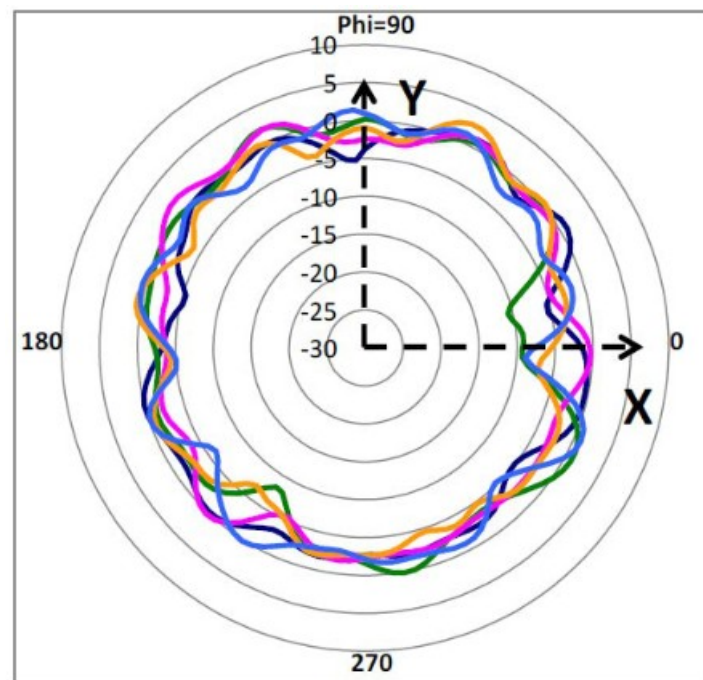
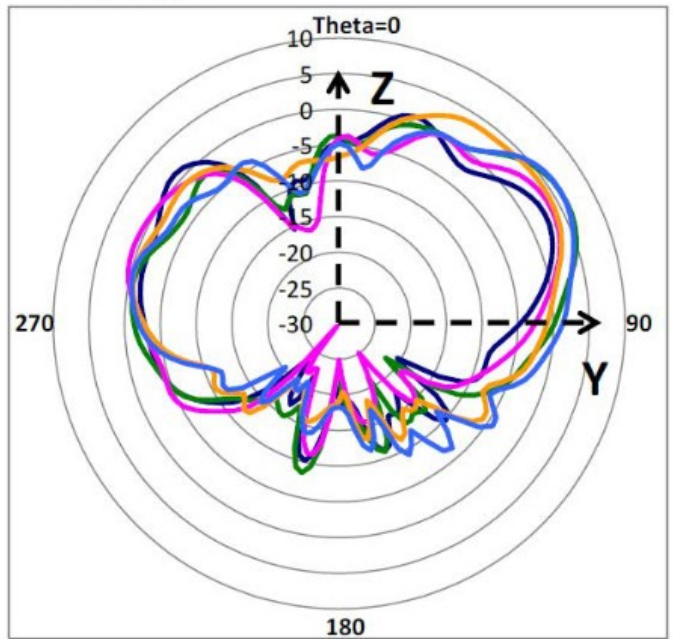
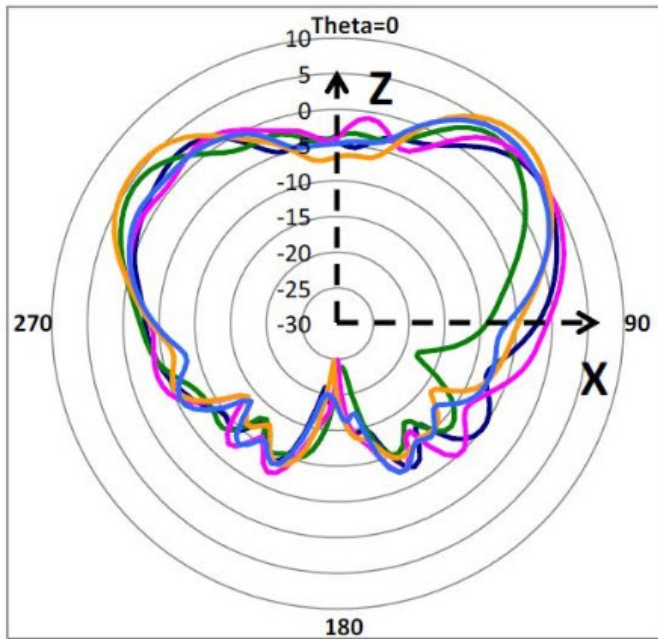
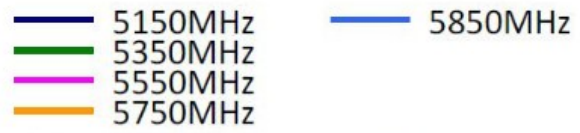


X-Y Plane



5G1

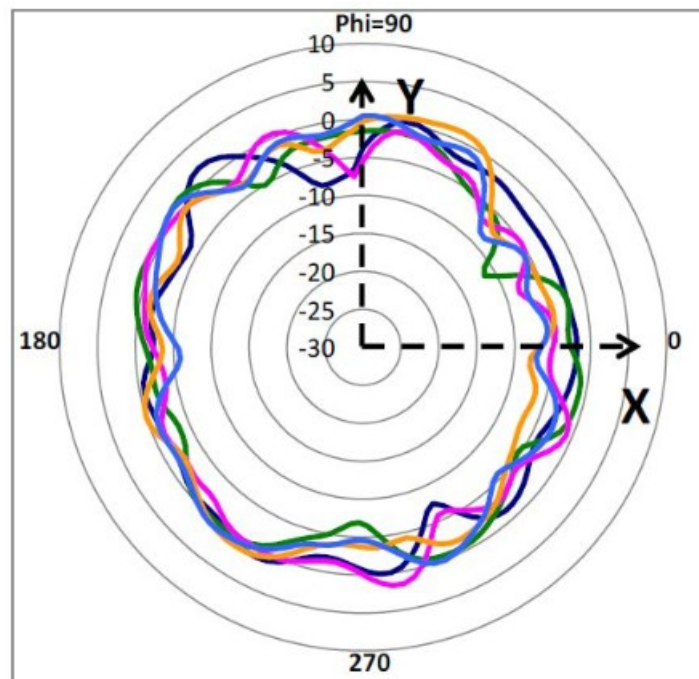
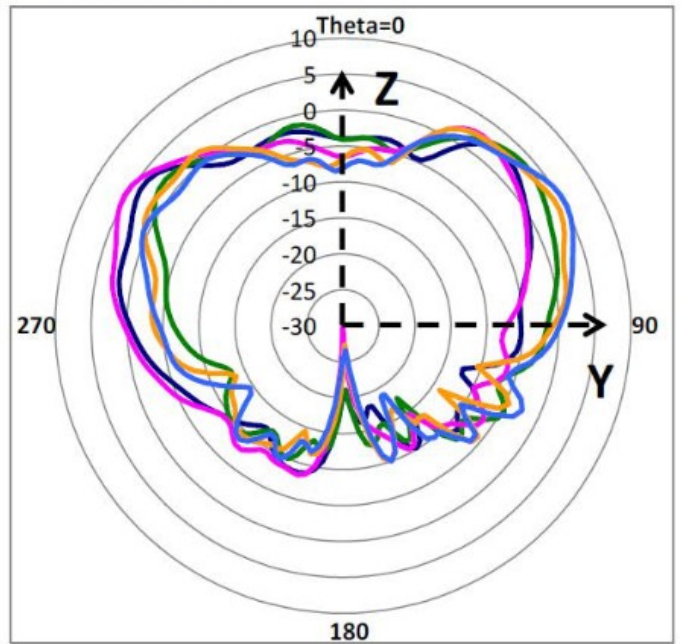
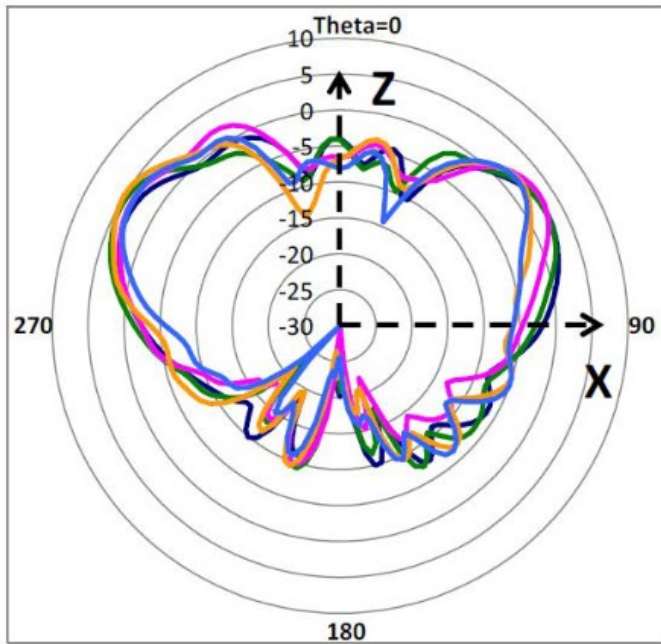
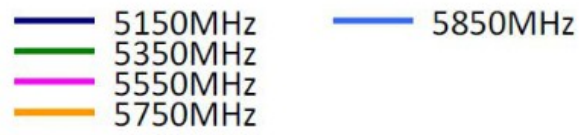
## Radiation Pattern



5G 2

5G2

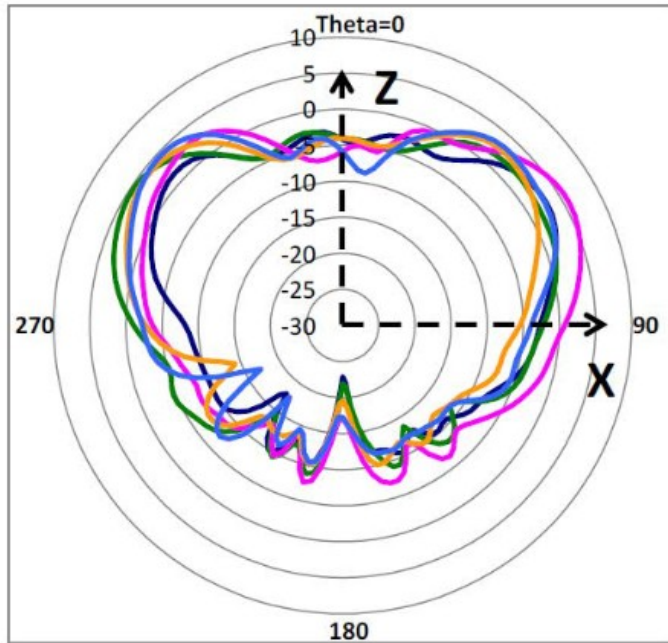
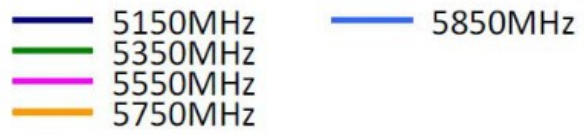
## Radiation Pattern



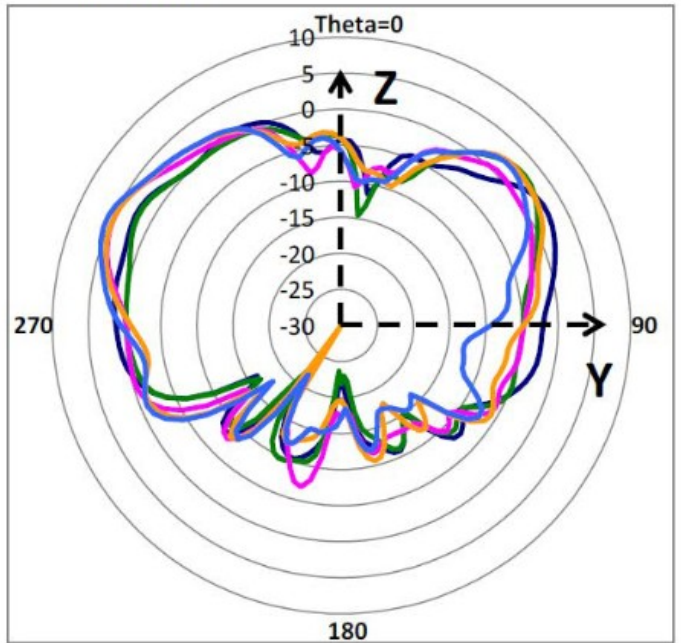
5G 3

# 5G3

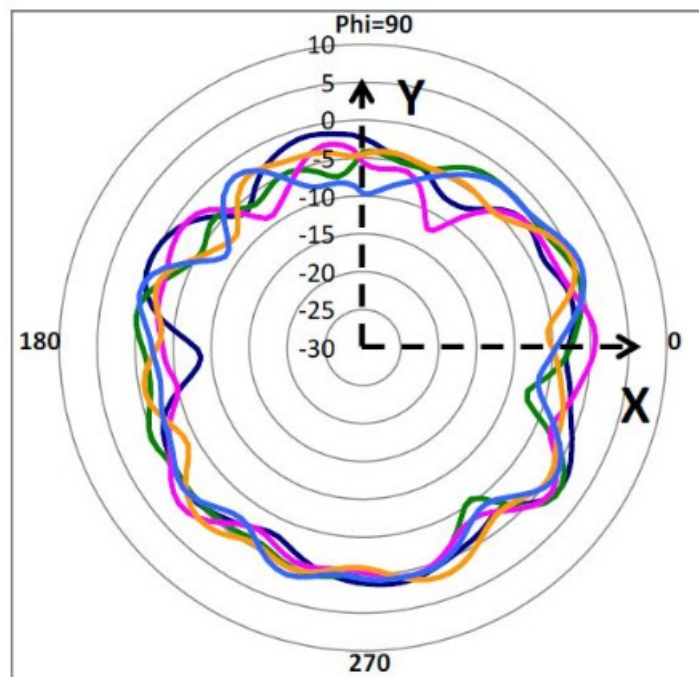
## Radiation Pattern



X-Z Plane



Y-Z Plane

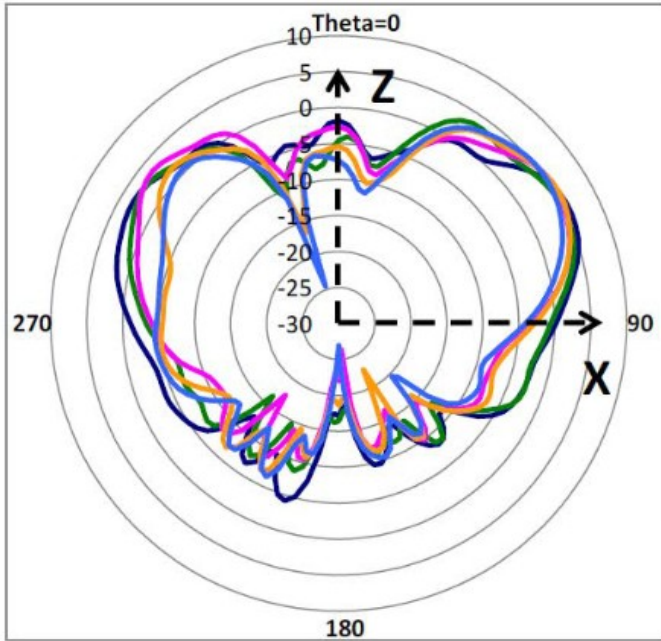
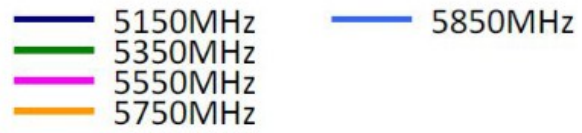


X-Y Plane

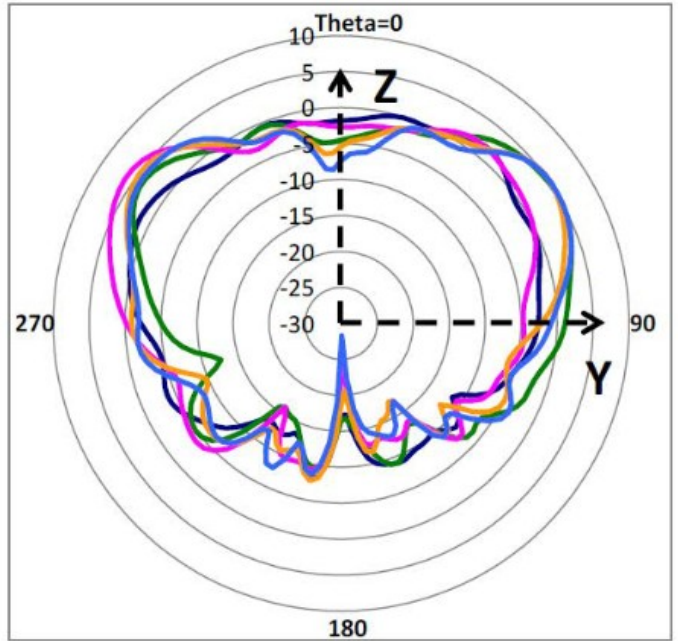


5G4

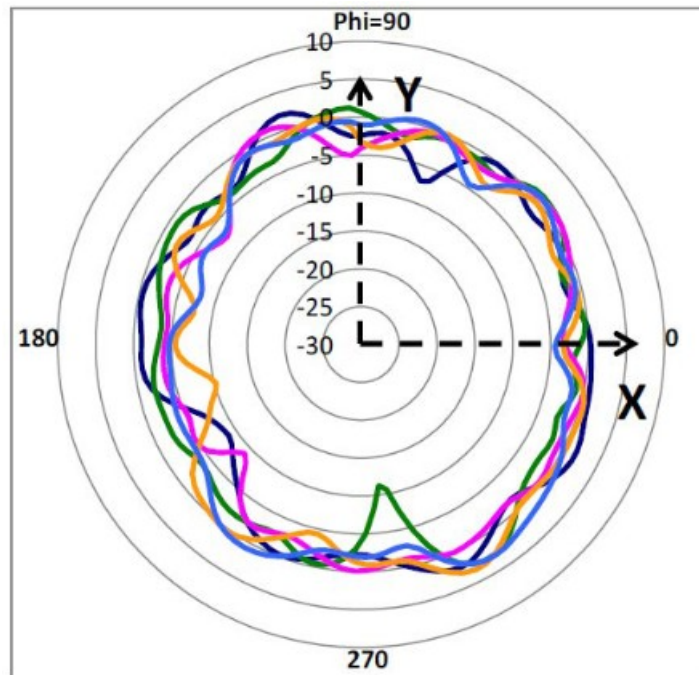
## Radiation Pattern



X-Z Plane

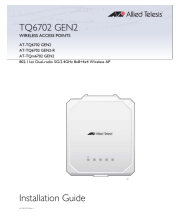


Y-Z Plane



X-Y Plane



 <p>TQ6702 GEN2 WIRELESS ACCESS POINTS</p> <p>AT TQ6702 GEN2 AT TQ6702 GEN2 AT TQ6702 GEN2 AT TQ6702 GEN2</p> <p>Installation Guide</p>	<p><b><a href="#">Allied Telesis TQ6702 GEN2 Wireless Access Points</a> [pdf] Installation Guide</b></p> <p>TQ6702 GEN2 Wireless Access Points, TQ6702, GEN2 Wireless Access Points, Wireless Access Points, Access Points</p>
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