

**SOPHOS**

# Operating Instructions

AP6 420X



## Foreward

We are pleased to welcome you as a new Sophos AP6 Series customer.

Sophos AP6 Series access points are high performance wireless products using the latest 802.11ax technology for a best-in-class user experience. The AP6 Series models can be easily managed in Sophos Central, our cloud-based security management platform. All you need to do is set up a Sophos Central account and plug in the device anywhere in your network. The access point will find the cloud-based controller automatically and become operable within seconds.

These operating instructions will help you set up your Sophos Central account, install and configure your Sophos AP6 Series access point and also provide detailed technical specifications. In addition, please also see the following documents that contain useful information on safety, regulatory compliance, and configuration options:

- **Sophos AP6 Series Safety Instructions and Regulatory Information**
- **Sophos AP6 420X Quick Start Guide**

The instructions must be read carefully prior to using the device and should be kept in a safe place. You can download all user manuals and additional documentation from the Sophos Knowledgebase under [www.sophos.com/en-us/support/knowledgebase.aspx](http://www.sophos.com/en-us/support/knowledgebase.aspx) or from [www.sophos.com/get-started-ap](http://www.sophos.com/get-started-ap).



## Security symbols

The following symbol and its meaning appears in the Quick Start Guide, Safety Instructions and in these Operating Instructions.

Caution and Important Note. If these notes are not correctly observed:

- This is dangerous to life and the environment
- The access point may be damaged
- The functions of the access point will be no longer guaranteed
- Sophos shall not be liable for damages arising from a failure to comply with the Safety Instructions

## Designed use

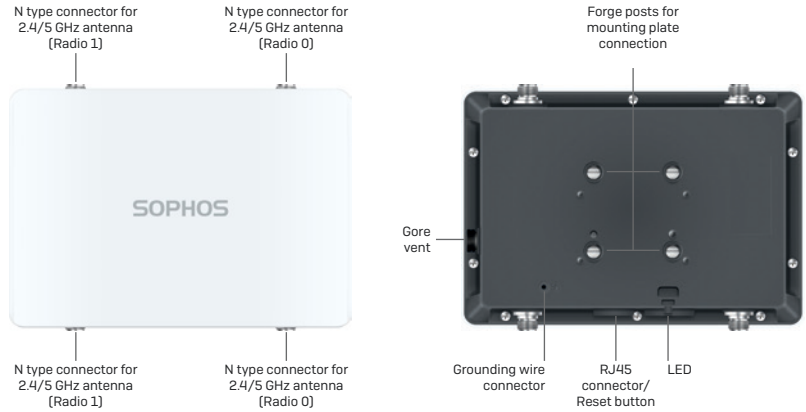
The access point must be installed pursuant to the current installation notes. Otherwise failure-free and safe operation cannot be guaranteed. The EU declaration of conformity is available upon request from the following address:

**Sophos Technology GmbH**  
**Gustav-Stresemann-Ring 1**  
**65189 Wiesbaden**  
**Germany**

It is also available online:

<https://docs.sophos.com/nsg/other/RegulatoryCompliance/en-us/index.html>

## Operating elements and connections



## Component descriptions

| Component                | Description                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Status LED               | Indicates the operational state of your access point such as boot status, firmware updates and error states. For details, see table "LED Status" below.                                                                                                                                                                                                                                                                                                  |
| Radio LED                | Indicates the radio mode your access point is currently operating in. For details, see table "LED Status" below.                                                                                                                                                                                                                                                                                                                                         |
| Mesh LED                 | Indicates whether the access point has Mesh activated.                                                                                                                                                                                                                                                                                                                                                                                                   |
| RJ45 connector           | Primary Ethernet port to connect your access point to your network. The Ethernet port is 100/1000/2500 Mbps compatible and auto-negotiate to the speed and half- and full-duplex of the connecting device. This port needs to be connected to a PoE capable source (PoE Injector or PoE switch) to power your access point. There is no dedicated DC power source available. Sophos offers suitable PoE injectors for purchase as an optional accessory. |
| Reset button             | Allows you to reboot the device and reset its configuration to the factory default. For details, please see section "Reboot & Reset".                                                                                                                                                                                                                                                                                                                    |
| Gore Vent                | Prevents excessive heat build-up inside the product while still preventing moisture entry.                                                                                                                                                                                                                                                                                                                                                               |
| Grounding Wire Connector | Used for permanently connecting the AP6 to earth ground to adequately ground the chassis and protect the operator from electrical hazards.                                                                                                                                                                                                                                                                                                               |
| N Type connector         | Used for connecting the standard Omni- or optional Sector/Directional antennas                                                                                                                                                                                                                                                                                                                                                                           |
| Forge posts              | Used for connecting the mounting bracket.                                                                                                                                                                                                                                                                                                                                                                                                                |

## LEDs

| Status              | Radio          | Mesh               |                                                         |
|---------------------|----------------|--------------------|---------------------------------------------------------|
| Off                 | Off            | Off                | AP is off or reboot started.                            |
| Flashing Green      | Off            | Off                | AP is booting and applying configuration <sup>*</sup> . |
| Flashing Green      | Flashing Green | Off                | Configuration reset in progress <sup>*</sup> .          |
| Flashing Green      | Flashing Green | Flashing Green     | Reset button pressed, AP preparing configuration reset. |
| Flashing Fast Green | Off            | Off                | Firmware update in progress <sup>**</sup> .             |
| Solid Green         | Off            | Off or Solid Green | AP is operating in Single-Band.                         |
| Solid Green         | Green          | Off or Solid Green | AP is operating in Dual-Band.                           |

\* Your AP should recover from this state after a maximum of 5 minutes.

\*\* Note: Do not disconnect from power, nor reboot or reset the device. When the device connects to Sophos Central for the first time, it might take up to 15 minutes to update firmware.

**IMPORTANT:** LED behavior might change with new updates in Firmware. For latest Quick Start Guide, please visit <https://www.sophos.com/get-started-ap>.

## Connection and configuration

Your access point can be managed in Sophos Central. The initial connection of your access point to your network is described in the AP6 Quick Start Guide which was shipped with your device or is available under [www.sophos.com/get-started-ap](http://www.sophos.com/get-started-ap).

For the access point to communicate with Sophos Central servers the following ports will need to be open on your firewall:

- 443 [HTTPS]
- 80 [HTTP]
- 123 [NTP]

After successful connection you can start your initial configuration.

## Setting up your access point in Sophos Central

You will need a Sophos Central account to manage your access points from Sophos Central. Please go to <https://central.sophos.com> to sign in under your account or create a new account.

After signing in select *Wireless* from the popup screen or click on *Wireless* in the left navigation to get started.

Follow the Onboarding *Wizard* to register your access point.

For more information, please see the [Sophos Central Admin Help](#).

## Reboot and reset

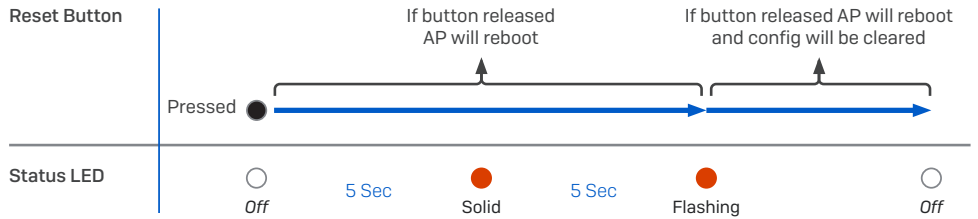
Your access point can be rebooted with the installed configuration or reset to the factory default configuration depending on how long you press and hold the reset button.

### Reboot with current image and configuration

1. Press reset button.
2. Release reset button.
3. AP reboots (Status LED will go off, then will start blinking after some seconds and turn to solid green after reboot is complete).

### Reboot with current image and clear configuration

1. Press and hold reset button for 5 sec.
2. Status, Radio, and Mesh LEDs will start flashing for 5 sec. You can still cancel the configuration clearance process by releasing the reset button before the Mesh LED turns Off. In that case the AP will reboot as described above.
3. After 5 sec. Mesh LED turns off. Status and Radio LEDs continue flashing.
4. Release reset button (configuration will be cleared).
5. AP reboots with factory default settings.



## Technical specifications

### AP6 420X

#### Environment

|                                        |                            |
|----------------------------------------|----------------------------|
| Power consumption                      | 25.5W (max.)               |
| Power over Ethernet (PoE) requirements | 802.3at                    |
| Operating temperature                  | -20° to 55° C              |
| Storage temperature                    | -40° to 70° C              |
| Humidity                               | 10% to 95% non-condensing  |
| Hazardous substances                   | RoHS-2 and REACH compliant |

#### Physical specification

|                                     |                                                                                                       |
|-------------------------------------|-------------------------------------------------------------------------------------------------------|
| I/O ports                           | 1x RJ45 100/1000/2500 Mbps Ethernet w/PoE (802.3at)<br>1x Reset button<br>1x Kensington security slot |
| Memory                              | 1 GB DDR3L<br>4 MB NOR Flash<br>512 MB NAND Flash                                                     |
| Mounting                            | Wall-mount hang<br>Pole mount Ceiling                                                                 |
| Dimensions (Width x Depth x Height) | 260.5 x 180 x 69 mm (10.26 x 7.09 x 2.72 inches)                                                      |
| Weight                              | 1.6 kg (3.53 lbs)                                                                                     |

#### Wireless specification

|                          |                                                                         |
|--------------------------|-------------------------------------------------------------------------|
| Radios                   | 1x 2.4 GHz single band<br>1x 5 GHz single band                          |
| Antennas                 | 4x omni-directional external dual-band antennas for Radio-0 and Radio-1 |
| Antenna Peak Gain        | 2.7 dBi at 2.4 GHz, 4.8 dBi at 5 GHz                                    |
| MIMO capabilities        | 2x2:2                                                                   |
| Supported WLAN standards | IEEE 802.11 a/b/g/n/ac/ax                                               |
| SSIDs                    | 16 (8 per Radio)                                                        |
| Max. Throughput          | 575 Mbps (2.4 GHz) + 2400 Mbps (5 GHz)                                  |

| Performance         |                 |         |                                    |            |
|---------------------|-----------------|---------|------------------------------------|------------|
| Band [MHz]          | Standard        | Rate    | Tx Max Power [MHz per chain] [dBm] | RSSI [dBm] |
| 2 GHz [2412 – 2483] | 802.11b         | 1Mbps   | 23                                 | -98        |
|                     |                 | 2Mbps   | 22                                 | -91        |
|                     |                 | 5Mbps   | 21                                 | -92        |
|                     |                 | 11Mbps  | 20                                 | -89        |
|                     | 802.11g         | 6Mbps   | 23                                 | -95        |
|                     |                 | 9Mbps   | 23                                 | -91        |
|                     |                 | 12Mbps  | 22                                 | -89        |
|                     |                 | 18Mbps  | 22                                 | -87        |
|                     |                 | 24Mbps  | 21                                 | -84        |
|                     |                 | 36Mbps  | 21                                 | -81        |
|                     |                 | 48Mbps  | 20                                 | -77        |
|                     |                 | 54Mbps  | 20                                 | -76        |
|                     |                 | 802.11n | MCS0                               | 23         |
|                     | MCS1            |         | 23                                 | -92        |
|                     | MCS2            |         | 22                                 | -89        |
|                     | MCS3            |         | 22                                 | -87        |
|                     | MCS4            |         | 21                                 | -83        |
|                     | MCS5            |         | 21                                 | -78        |
|                     | MCS6            |         | 20                                 | -77        |
|                     | MCS7            |         | 19                                 | -76        |
|                     | 802.11ax (HE20) | MCS0    | 23                                 | -95        |
|                     |                 | MCS1    | 23                                 | -92        |
|                     |                 | MCS2    | 22                                 | -89        |
|                     |                 | MCS3    | 22                                 | -86        |
|                     |                 | MCS4    | 21                                 | -83        |
|                     |                 | MCS5    | 21                                 | -79        |
|                     |                 | MCS6    | 20                                 | -78        |
|                     |                 | MCS7    | 19                                 | -76        |
|                     |                 | MCS8    | 19                                 | -72        |
|                     |                 | MCS9    | 18                                 | -70        |
|                     |                 | MCS10   | 17                                 | -67        |
|                     | MCS11           | 16      | -64                                |            |
|                     | 802.11ax (HE40) | MCS0    | 23                                 | -92        |
|                     |                 | MCS1    | 23                                 | -90        |
|                     |                 | MCS2    | 22                                 | -88        |
|                     |                 | MCS3    | 22                                 | -85        |
|                     |                 | MCS4    | 21                                 | -82        |
|                     |                 | MCS5    | 21                                 | -78        |
|                     |                 | MCS6    | 20                                 | -75        |
|                     |                 | MCS7    | 19                                 | -73        |
|                     |                 | MCS8    | 17                                 | -71        |
|                     |                 | MCS9    | 17                                 | -68        |
|                     |                 | MCS10   | 16                                 | -65        |
|                     | MCS11           | 15      | -62                                |            |

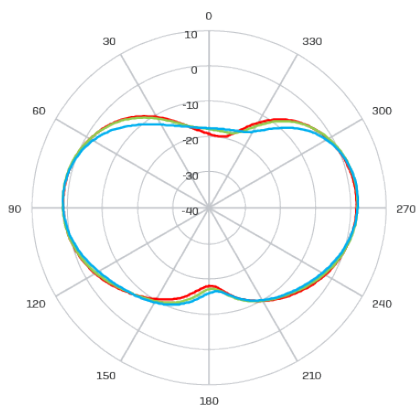
| Performance         |                  |                |      |     |
|---------------------|------------------|----------------|------|-----|
| 5 GHz (5180 – 5825) | 802.11a          | 6Mbps          | 22   | -97 |
|                     |                  | 9Mbps          | 22   | -95 |
|                     |                  | 12Mbps         | 22   | -92 |
|                     |                  | 18Mbps         | 22   | -89 |
|                     |                  | 24Mbps         | 22   | -87 |
|                     |                  | 36Mbps         | 22   | -84 |
|                     |                  | 48Mbps         | 21   | -80 |
|                     |                  | 54Mbps         | 20   | -78 |
|                     |                  | 802.11n (HT20) | MCS0 | 22  |
|                     | MCS1             |                | 22   | -94 |
|                     | MCS2             |                | 22   | -91 |
|                     | MCS3             |                | 22   | -88 |
|                     | MCS4             |                | 21   | -86 |
|                     | MCS5             |                | 21   | -83 |
|                     | MCS6             |                | 20   | -80 |
|                     | MCS7             |                | 19   | -78 |
|                     | 802.11n (HT40)   | MCS0           | 22   | -94 |
|                     |                  | MCS1           | 22   | -93 |
|                     |                  | MCS2           | 22   | -89 |
|                     |                  | MCS3           | 22   | -85 |
|                     |                  | MCS4           | 21   | -81 |
|                     |                  | MCS5           | 21   | -79 |
|                     |                  | MCS6           | 20   | -75 |
|                     |                  | MCS7           | 19   | -75 |
|                     | 802.11ac (VHT20) | MCS0           | 22   | -97 |
|                     |                  | MCS1           | 22   | -94 |
|                     |                  | MCS2           | 22   | -91 |
|                     |                  | MCS3           | 22   | -88 |
|                     |                  | MCS4           | 21   | -86 |
|                     |                  | MCS5           | 21   | -83 |
|                     |                  | MCS6           | 20   | -80 |
|                     |                  | MCS7           | 19   | -78 |
|                     |                  | MCS8           | 18   | -74 |
|                     | 802.11ac (VHT40) | MCS0           | 22   | -94 |
|                     |                  | MCS1           | 22   | -91 |
|                     |                  | MCS2           | 22   | -88 |
|                     |                  | MCS3           | 22   | -85 |
|                     |                  | MCS4           | 21   | -82 |
|                     |                  | MCS5           | 21   | -78 |
|                     |                  | MCS6           | 20   | -76 |
|                     |                  | MCS7           | 19   | -75 |
|                     |                  | MCS8           | 18   | -72 |
|                     |                  | MCS9           | 17   | -69 |
|                     | 802.11ac (VHT80) | MCS0           | 22   | -91 |
|                     |                  | MCS1           | 22   | -88 |
|                     |                  | MCS2           | 22   | -85 |
|                     |                  | MCS3           | 22   | -82 |
|                     |                  | MCS4           | 21   | -79 |
|                     |                  | MCS5           | 21   | -78 |
|                     |                  | MCS6           | 20   | -73 |
|                     |                  | MCS7           | 19   | -72 |
|                     |                  | MCS8           | 18   | -69 |
|                     |                  | MCS9           | 17   | -66 |

| Performance |                  |       |     |     |
|-------------|------------------|-------|-----|-----|
|             | 802.11ax (HE20)  | MCS0  | 22  | -97 |
|             |                  | MCS1  | 22  | -94 |
|             |                  | MCS2  | 22  | -91 |
|             |                  | MCS3  | 22  | -88 |
|             |                  | MCS4  | 21  | -86 |
|             |                  | MCS5  | 21  | -83 |
|             |                  | MCS6  | 20  | -80 |
|             |                  | MCS7  | 19  | -78 |
|             |                  | MCS8  | 17  | -74 |
|             |                  | MCS9  | 18  | -70 |
|             |                  | MCS10 | 16  | -68 |
|             |                  | MCS11 | 15  | -67 |
|             | 802.11ax (HE40)  | MCS0  | 22  | -94 |
|             |                  | MCS1  | 22  | -91 |
|             |                  | MCS2  | 22  | -88 |
|             |                  | MCS3  | 22  | -85 |
|             |                  | MCS4  | 21  | -82 |
|             |                  | MCS5  | 21  | -78 |
|             |                  | MCS6  | 20  | -76 |
|             |                  | MCS7  | 19  | -75 |
|             |                  | MCS8  | 18  | -72 |
|             |                  | MCS9  | 17  | -69 |
|             |                  | MCS10 | 16  | -66 |
|             |                  | MCS11 | 15  | -63 |
|             | 802.11ax (HE80)  | MCS0  | 22  | -91 |
|             |                  | MCS1  | 22  | -88 |
|             |                  | MCS2  | 22  | -85 |
|             |                  | MCS3  | 22  | -82 |
|             |                  | MCS4  | 21  | -79 |
|             |                  | MCS5  | 21  | -75 |
|             |                  | MCS6  | 20  | -73 |
|             |                  | MCS7  | 19  | -72 |
|             |                  | MCS8  | 18  | -69 |
|             |                  | MCS9  | 17  | -66 |
|             |                  | MCS10 | 16  | -63 |
|             |                  | MCS11 | 15  | -61 |
|             | 802.11ax (HE160) | MCS0  | 22  | -85 |
|             |                  | MCS1  | 22  | -81 |
|             |                  | MCS2  | 22  | -78 |
|             |                  | MCS3  | 22  | -75 |
|             |                  | MCS4  | 21  | -72 |
|             |                  | MCS5  | 21  | -71 |
|             |                  | MCS6  | 20  | -69 |
|             |                  | MCS7  | 19  | -68 |
| MCS8        |                  | 18    | -65 |     |
| MCS9        |                  | 17    | -62 |     |
| MCS10       |                  | 16    | -59 |     |
| MCS11       |                  | 15    | -57 |     |

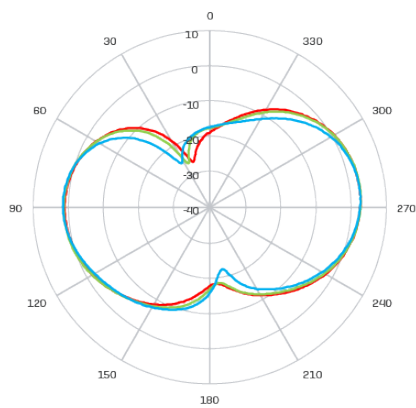
## Radiation patterns

### 2.4 GHz Band

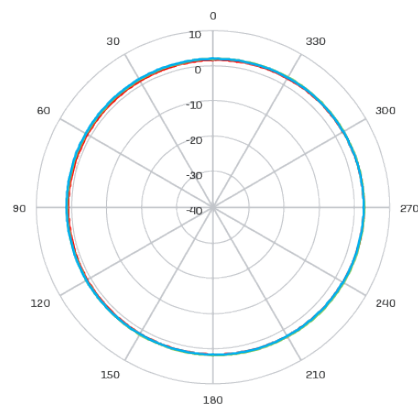
ZX



YZ



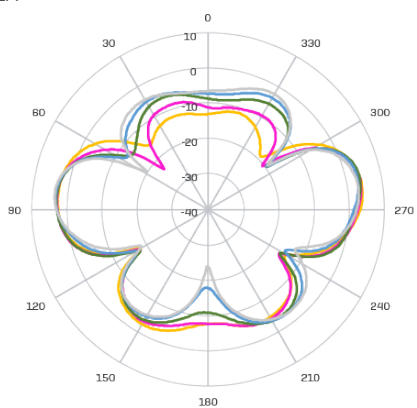
XY



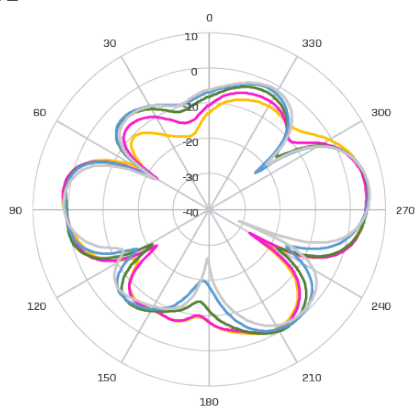
-2400 [MHz] -2450 [MHz] -2500 [MHz]

### 5 GHz Band

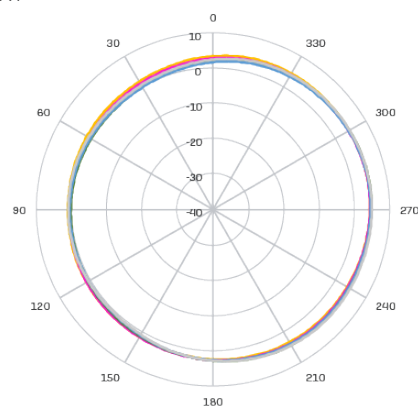
ZX



YZ



XY



-5150 [MHz] -5325 [MHz] -5500 [MHz] -5675 [MHz] -5850 [MHz]

## Optional Sector / Directional Antennas



### Technical specifications

#### Optional Sector/Directional Antennas

##### 120° Sector Antenna

|                                        |                                                 |                             |
|----------------------------------------|-------------------------------------------------|-----------------------------|
| Frequency range                        | 2400~2500 MHz                                   | 5150~5850 MHz               |
| Port                                   | V-pol./H-pol.                                   | V-pol. H-pol.               |
| Antenna Gain                           | 10.6~10.8 dBi/10.0~11.4 dBi                     | 12.5~13.1 dBi/11.6~12.9 dBi |
| HPBW/Horizontal                        | 76~77 deg/63~66 deg                             | 40~61 deg/52~76 deg         |
| HPBW/Vertical                          | 24~25 deg/26~28 deg                             | 11~13 deg/11~13 deg         |
| Isolation                              | 20 dB                                           |                             |
| Impedance                              | 50 Ohms                                         |                             |
| Connector                              | N Jack                                          |                             |
| Dimensions<br>(Height x Width x Depth) | 320 x 200 x 20.5 mm [12.6 x 7.87 x 0.81 inches] |                             |

##### 30° Directional Antenna

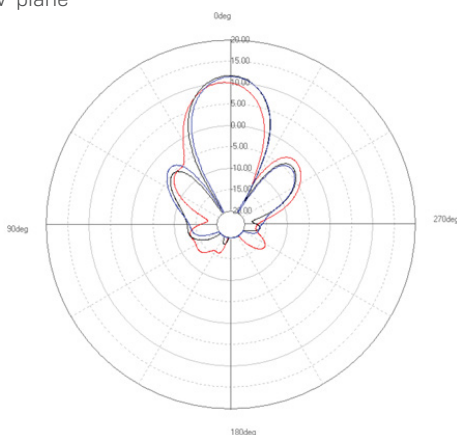
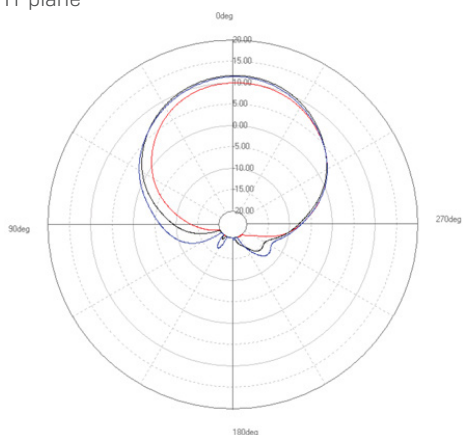
|                                        |                                                 |                             |
|----------------------------------------|-------------------------------------------------|-----------------------------|
| Frequency range                        | 2400~2500 MHz                                   | 5150~5850 MHz               |
| Port                                   | V-pol./H-pol.                                   | V-pol./H-pol.               |
| Antenna Gain                           | 11.6~11.8 dBi/ 11.6~12.0 dBi                    | 10.6~11.0 dBi/10.4~11.5 dBi |
| HPBW/Horizontal                        | 36~37 deg/35~36 deg                             | 33~35 deg/26~36 deg         |
| HPBW/Vertical                          | 34~35 deg/36~38 deg                             | 32~39 deg/30~41 deg         |
| Isolation                              | 20 dB                                           |                             |
| Impedance                              | 50 Ohms                                         |                             |
| Connector                              | N Jack                                          |                             |
| Dimensions<br>(Height x Width x Depth) | 320 x 200 x 20.5 mm [12.6 x 7.87 x 0.81 inches] |                             |

## Radiation patterns Sector Antenna – Horizontal Polarization

### 2.4 GHz Band

H-plane

V-plane

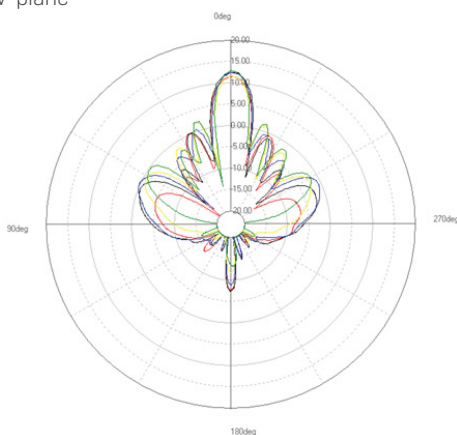
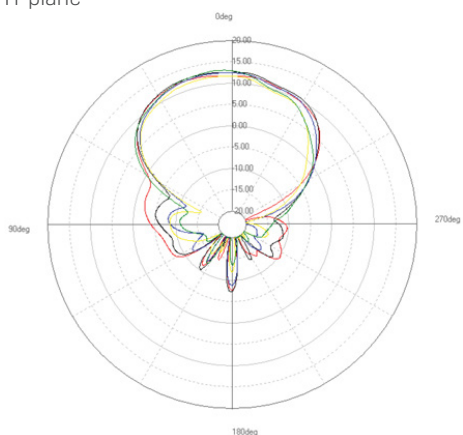


—2400 [MHz] —2450 [MHz] —2500 [MHz]

### 5 GHz Band

H-plane

V-plane

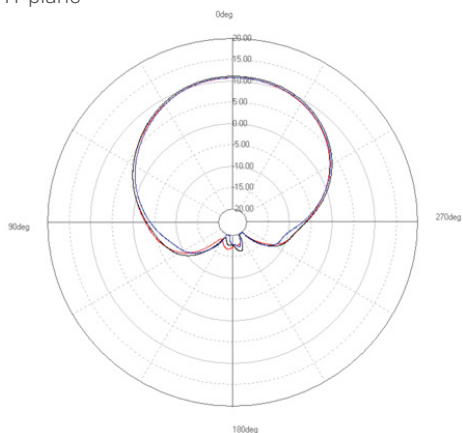


—4900 [MHz] —5150 [MHz] —5350 [MHz] —5475 [MHz] —5725 [MHz] —5875 [MHz]

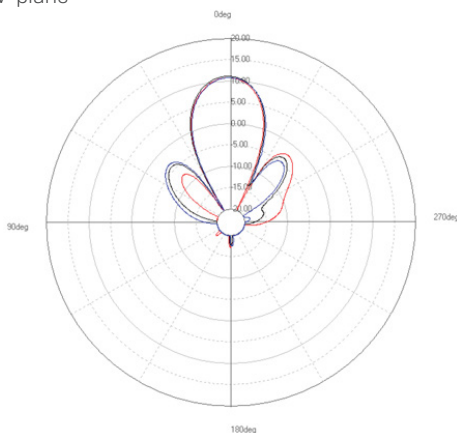
## Radiation patterns Sector Antenna – Vertical Polarization

### 2.4 GHz Band

H-plane



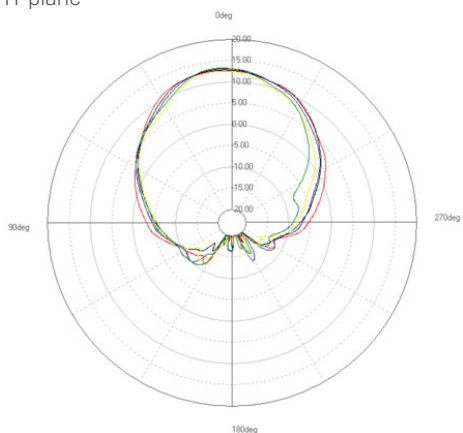
V-plane



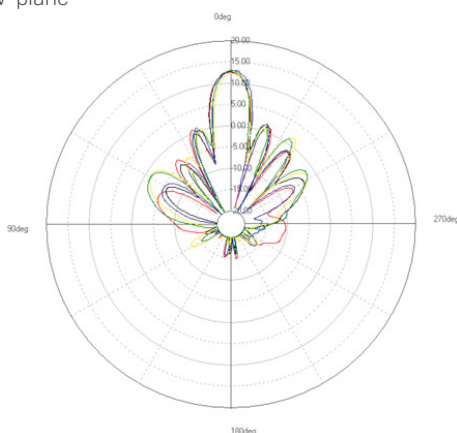
—2400 [MHz] —2450 [MHz] —2500 [MHz]

### 5 GHz Band

H-plane



V-plane

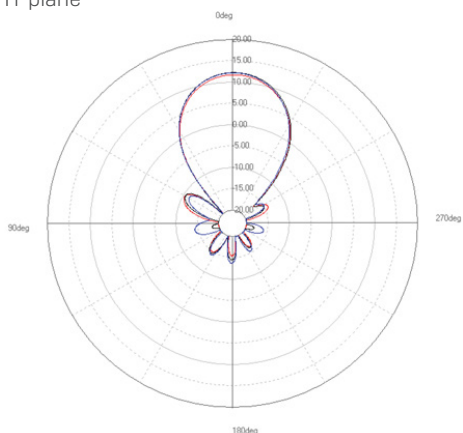


—4900 [MHz] —5150 [MHz] —5350 [MHz] —5475 [MHz] —5725 [MHz] —5875 [MHz]

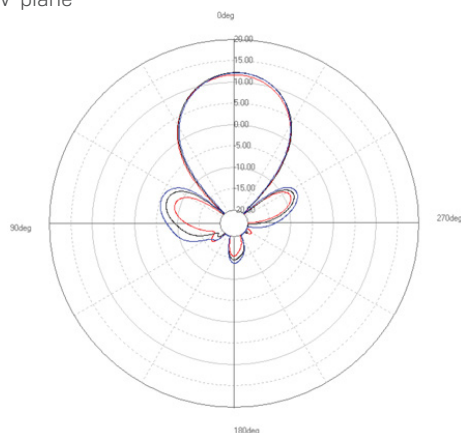
## Radiation patterns Directional Antenna – Horizontal Polarization

### 2.4 GHz Band

H-plane



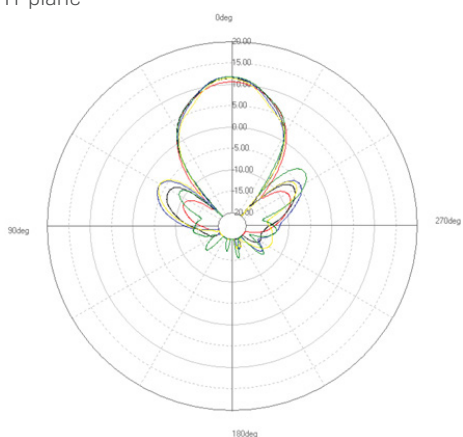
V-plane



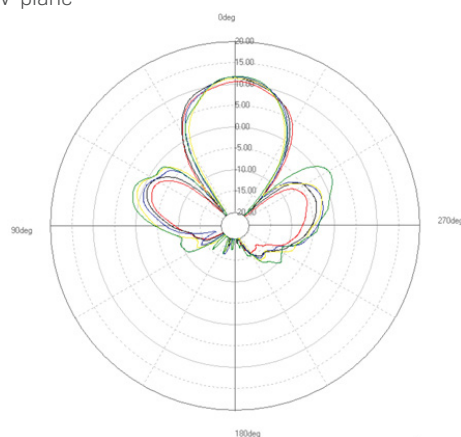
—2400 [MHz] —2450 [MHz] —2500 [MHz]

### 5 GHz Band

H-plane



V-plane



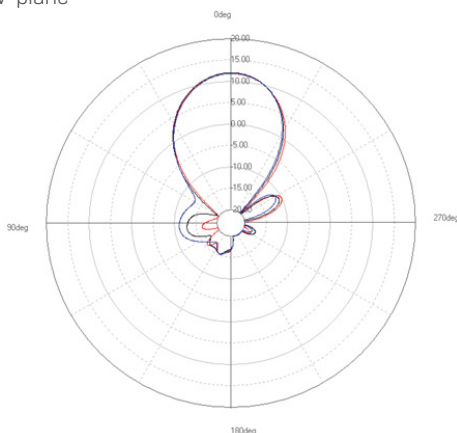
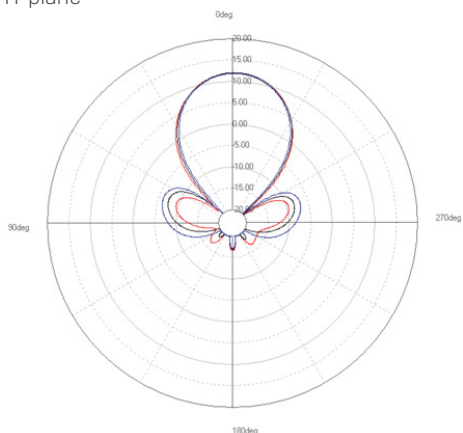
—4900 [MHz] —5150 [MHz] —5350 [MHz] —5475 [MHz] —5725 [MHz] —5875 [MHz]

## Radiation patterns Directional Antenna – Vertical Polarization

### 2.4 GHz Band

H-plane

V-plane

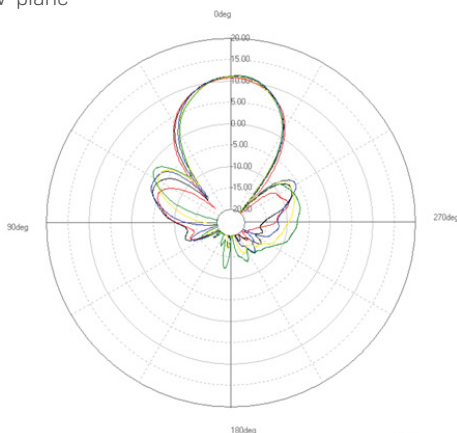
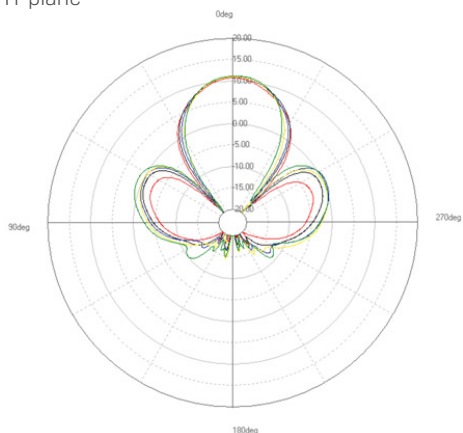


—2400 [MHz] —2450 [MHz] —2500 [MHz]

### 5 GHz Band

H-plane

V-plane

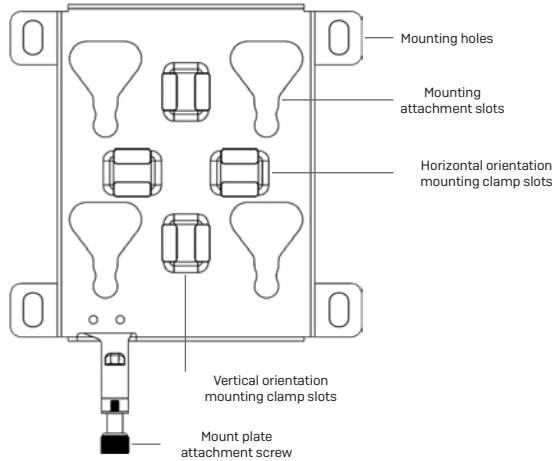


—4900 [MHz] —5150 [MHz] —5350 [MHz] —5475 [MHz] —5725 [MHz] —5875 [MHz]

## Mounting instructions

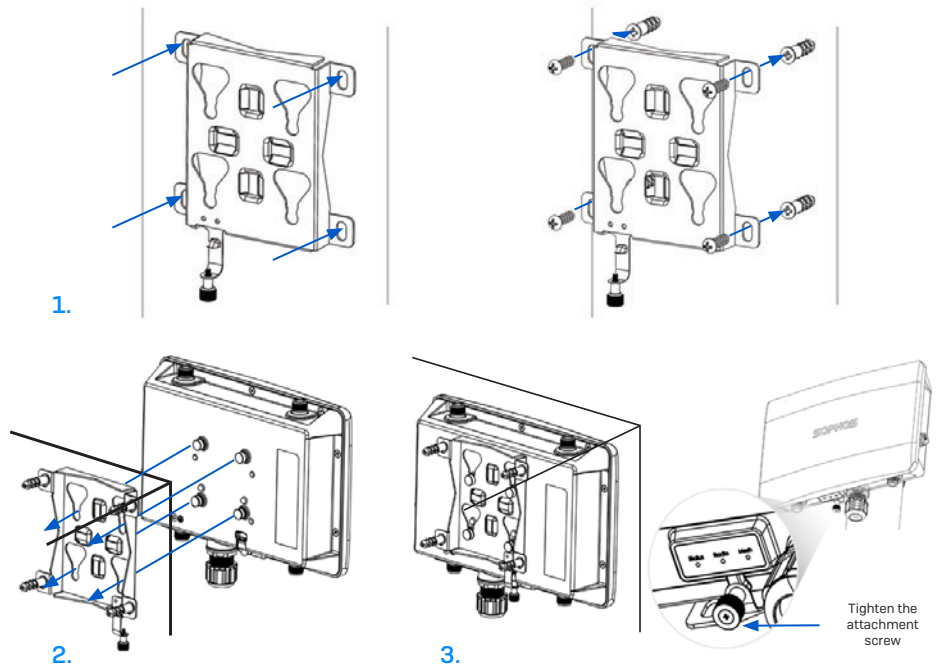
There are various mounting options available allowing you to hang your access point on the wall or mount it on a pole. Both options require the use of the mounting bracket which is shipped with your access point. The following sections provide detailed instructions on each of these options.

### Mounting bracket



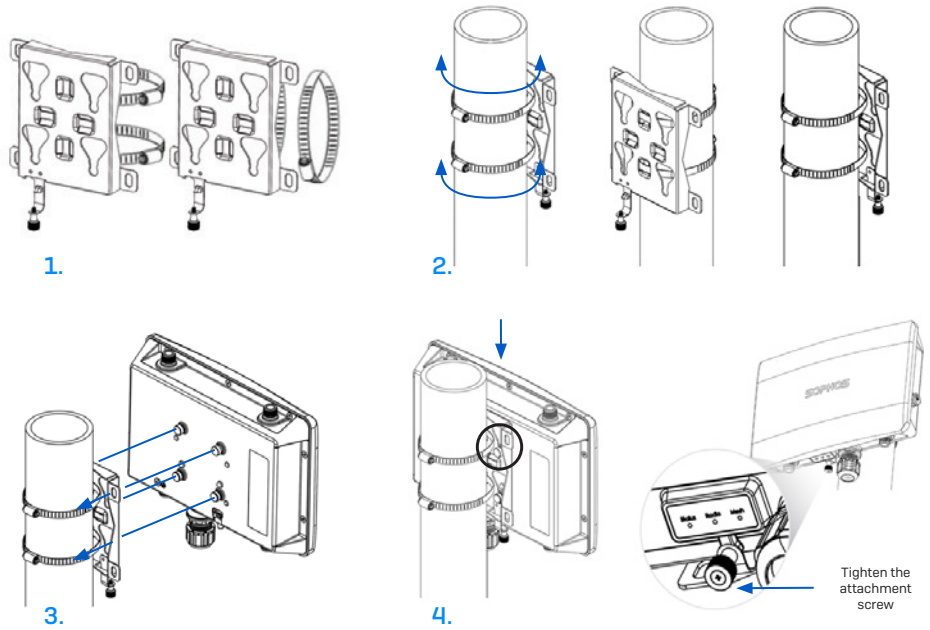
### Wall mount

1. Use the mounting bracket to mark the screw mounting positions on the wall.
2. Attach the access point to the bracket by hanging the 4 forge posts into the attachment slots of the bracket and pressing it down.
3. Tighten the attachment screw to fix the access point to the bracket.



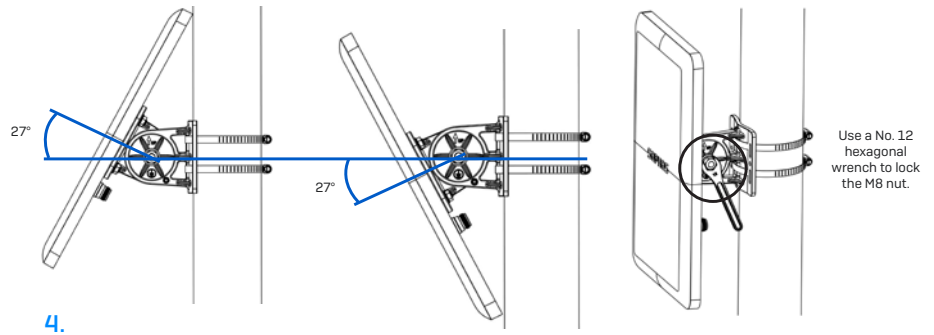
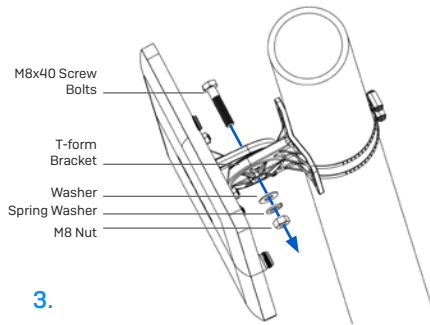
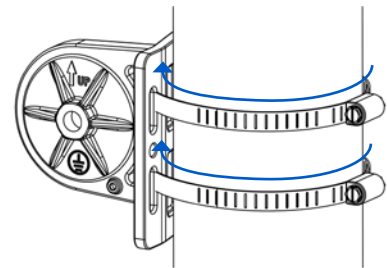
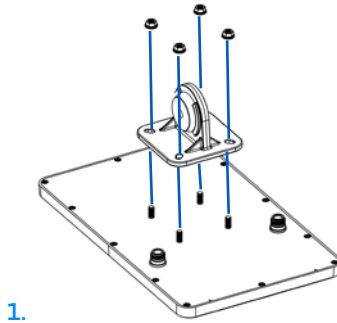
## Pole mount

1. Attach the two metal clamps to the back of the mounting bracket using the vertical or horizontal mounting slots (according to the desired orientation).
2. Hold the bracket against the pole and tighten the metal clamps.
3. Attach the access point to the bracket by hanging the 4 forge posts into the attachment slots of the bracket and pressing it down.
4. Tighten the attachment screw to fix the access point to the bracket



### Sector/Directional Antenna Mounting Instructions

1. Attach the articulating mount to the back of the sector/directional antenna using four of the supplied M6 nuts.
2. Fix the T-form bracket to the pole by using the two supplied stainless steel hose clamps.  
**Please note:** The clamps can be used for poles of 35-65 mm (1.5-2.5 inches) diameter.
3. Fix the articulating mount to the T-form bracket by using the supplied M8x40 bolts, nut, spring washer and washer.
4. Direct the antenna upward or downward (max. angle is 27°) and fix it into place.

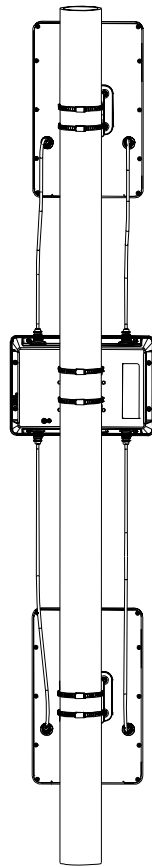


### Connect the Sector/Directional Antenna to the Access Point

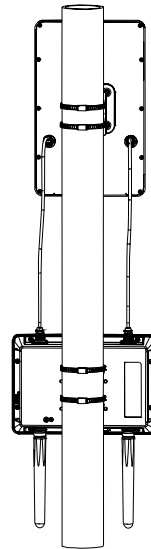
Connect the antenna to your AP6 420X access point by using the supplied cables. You can use your sector/directional antenna either in combination with the standard omnidirectional antennas or with another sector/directional antenna.

Choose the appropriate connection for the scenario which best fits your use case - as shown in the table below.

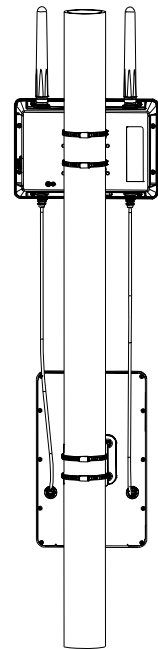
| Scenario | 2.4 GHz Band (Top)   | 5 GHz Band (Bottom)  |
|----------|----------------------|----------------------|
| a        | Sector / Directional | Sector / Directional |
| b        | Sector / Directional | Omni                 |
| c        | Omni                 | Sector / Directional |



a.



b.



c.

### Configure Sector / Directional Antenna Software Settings

Once the external antenna is connected, please select the corresponding antenna settings in your Sophos Central Wireless admin account. Once selected and the configuration synched, the AP reboots and the correct power values will be set.



**WARNING:** Failure to configure the correct antenna settings may place the AP outside of regulatory limits. The administrator is responsible for ensuring this configuration is correct.

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