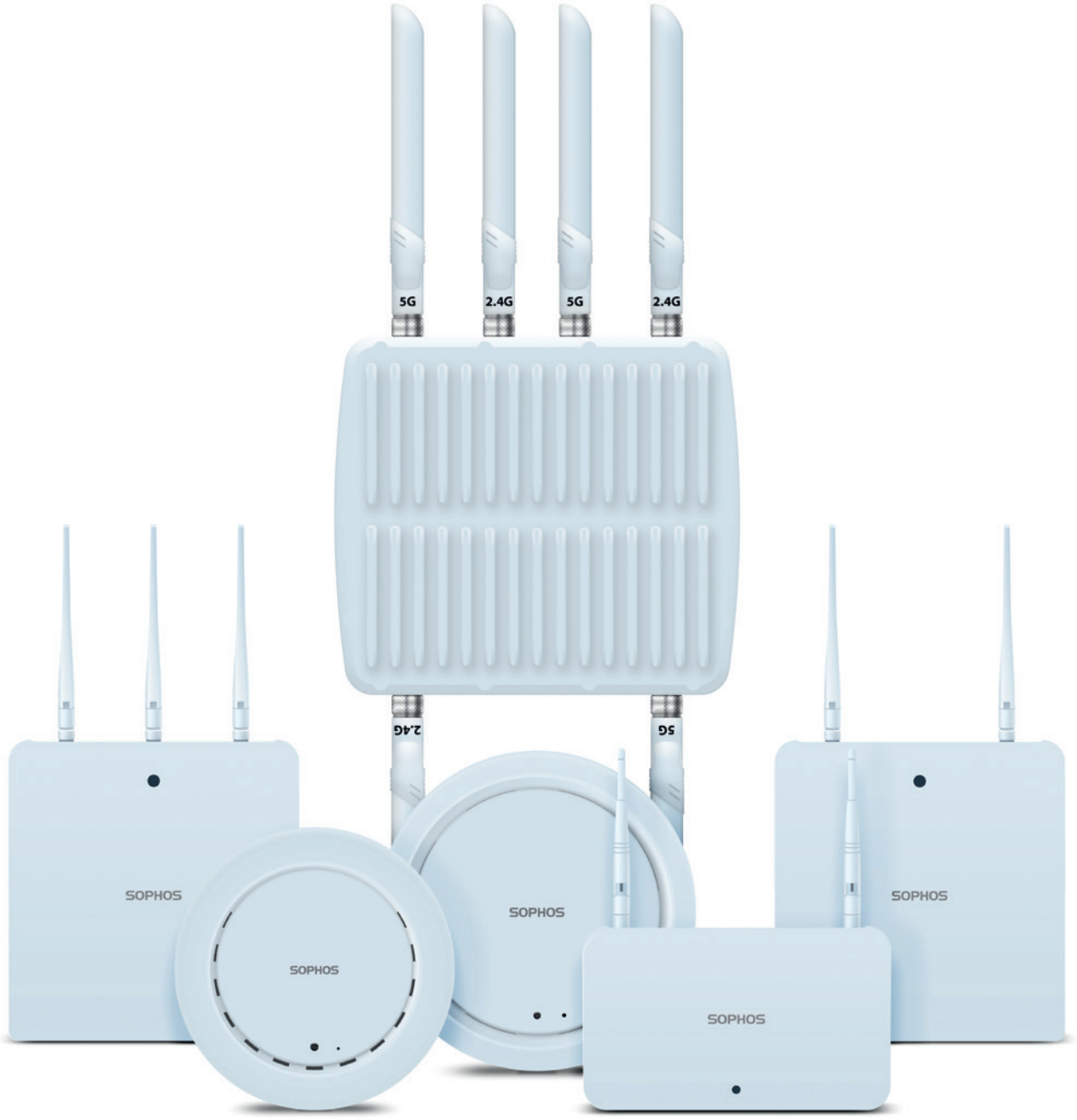
SOPHOS
Security made simple.

# Operating Instructions

## Sophos Access Points



# Foreword

We are pleased to welcome you as a new Sophos Access Point customer.

These operating instructions will help you install and configure the access point and provide technical specifications of all Sophos access point models. In addition, please also see the following documents that contain useful information on safety, regulatory compliance, and configuration options:

- Sophos Access Points Safety Instructions and Regulatory Information
- Sophos UTM Administration Guide: Configuring the UTM hardware and software appliance

The instructions must be read carefully prior to using the device and should be kept in a safe place. You may download all user manuals and additional documentation from the Sophos Knowledgebase at http://www.sophos.com/en-us/support/knowledgebase.aspx.

# Introduction

UTM Wireless Protection simplifies the operation of secure and reliable wireless networks. It combines affordable and configuration-less access points through a built-in wireless controller in the in Sophos UTM. The wireless controller itself centrally manages all wireless access points; all you need to do is plug in the device anywhere in your network. The access point will find the controller, fetch its configuration and become operable within seconds. In addition, it easily provides wireless guest Internet access during the initial setup, unless you explicitly deny automatic configuration.

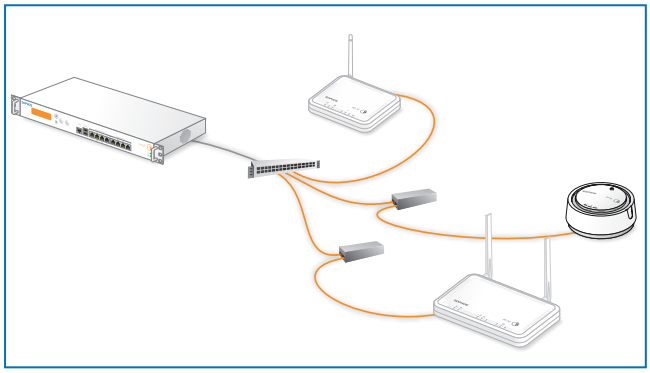
# Installation

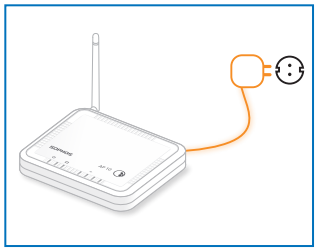
## Preliminary steps

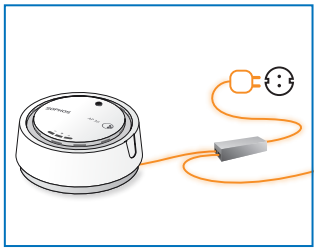
Please update your UTM appliance to the latest version available. Note that you also need a valid UTM Wireless Protection subscription to operate the Sophos Access Points.

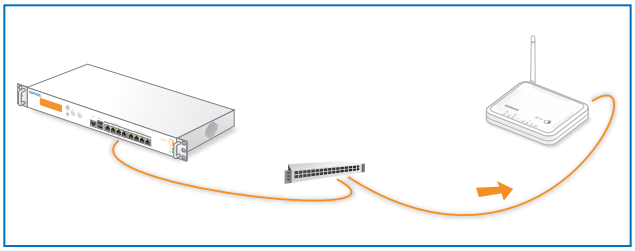
## Connect the access point to the internal network

Decide where you would prefer to place the access point, and put the access point in that location. For mounting instructions, see below. Now connect the access point to your internal network by plugging in the network cable to the access point's RJ45 or LAN (PoE) Ethernet interface, respectively.









## Connect the access point to the power supply

The AP 15, AP 15C, AP 55, AP 55C, AP 100, AP 100C, and AP 100X can be powered directly through the Power-over-Ethernet-injector. Note that it is also possible to power them by a PoE-compliant switch. For more information on PoE-injectors, see below.

Connect the AP 15 to the power supply. Please use the power supply from the scope of supply. Note that the AP 15 can also be operated through a PoE-injector or PoE-compliant switch.

## Start the communication between the access point and the UTM appliance

When connected to the network, the access point will try to receive an IP address via DHCP. Therefore, you need either the UTM appliance (with a DHCP server enabled and listening on the interface the access point is connected to) or any other DHCP server to provide an IP address for the access point.

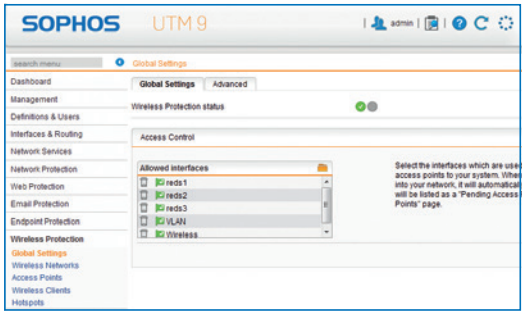
After successfully receiving an IP address, the access point will communicate with the UTM appliance. For this to happen, the UTM appliance needs to be put in the upstream of the access points, either being the default gateway of the access points (which was provided by the DHCP service) or on the default route (most likely your route to the Internet).

Please note that the actual Internet access is not necessary to use UTM Wireless Protection. While waiting for DHCP and searching for the UTM appliance, the access point's power LED will blink slowly.

## Enable UTM Wireless Protection on the UTM appliance

In WebAdmin, navigate to the Wireless Protection menu entry. On the Global Settings tab, click the Enable button. When enabling Wireless Protection for the first time, the Initial Setup frame will appear. It shows the configuration which will be created: A separate Wireless "Guest" network using WPA2 personal with DHCP for wireless clients, which will be allowed to use DNS on the UTM appliance and the "Web Surfing" service.

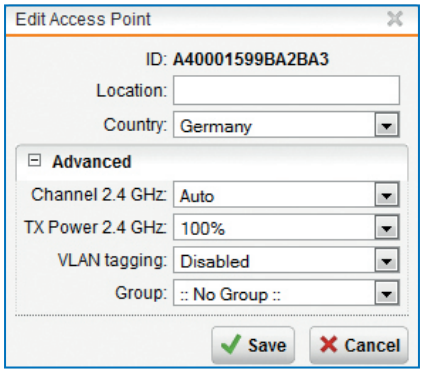
The pre-shared key is auto-generated and will only be shown in this section. This configuration is intended as a template, you can edit the settings at any time on the Wireless Protection > Wireless Networks tab. You can also skip the initial setup by ticking the checkbox on the bottom of the section.



## Accepting the access point

The UTM appliance will start to communicate with the access point and they will show up as "Pending" on the Wireless Protection > Access Points tab in WebAdmin. The ID of the Access Points, shown in square brackets, is also printed on the bottom of the device. It can be used to distinguish the access point. By clicking the Accept button, you are given the option to select the channel this access point will transmit on. When leaving the channel setting on "Auto", the access point will use the least used channel.

We also suggest to give the access point a meaningful location (e.g., "Meeting Room") as this will ease handling multiple access points. After clicking the Save button, the access points will reboot. Upon reconnect, the access point will check if a more recent firmware is available. If so, they will automatically perform a firmware update. During the firmware update, the access point's power LED will blink rapidly.




**Important note:** Do not unplug the power while the firmware is updating. Otherwise the access point will be rendered inoperable and must be returned to the reseller.

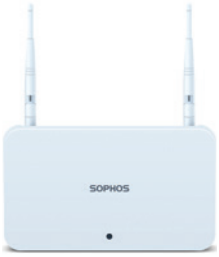
The access point will then reboot to complete the firmware update. If no new firmware is available, the access point is operational and appears as "Active" in WebAdmin.

## Country code selection usage (WLAN devices)

**Note:** According to FCC regulations, all WLAN devices marketed and sold in the U.S. must be restricted to U.S. channels only. Therefore, the country code selection is applicable to non-U.S. models only. So changing the country setting of any Sophos AP sold in the U.S. will not modify authorized parameters such as RF channels, which means that the Access Point will always operate in U.S. authorized channels.

# AP 15

## Scope of supply




Sophos AP 15

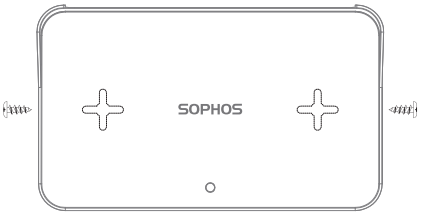

Security Notes

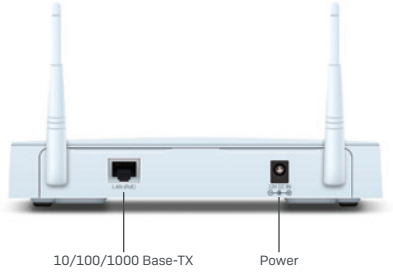
Power supply

2 Detachable dipole antenna

2 screws and dowels

Ethernet cable




**Important note:** Sophos AP 15 requires Sophos UTM V 9.207 to be installed.

## Mounting instructions

The Sophos AP 15 can be mounted on the wall. Screws are included in delivery.

## Controls

| LED | |
|---|---|
| **Green - blinking slowly** | AP is booting |
| **Green - blinking rapidly** | Network connectivity |
| **Orange - blinking slowly** | No connection to the Sophos UTM |
| **Orange - blinking rapidly** | Firmware update |

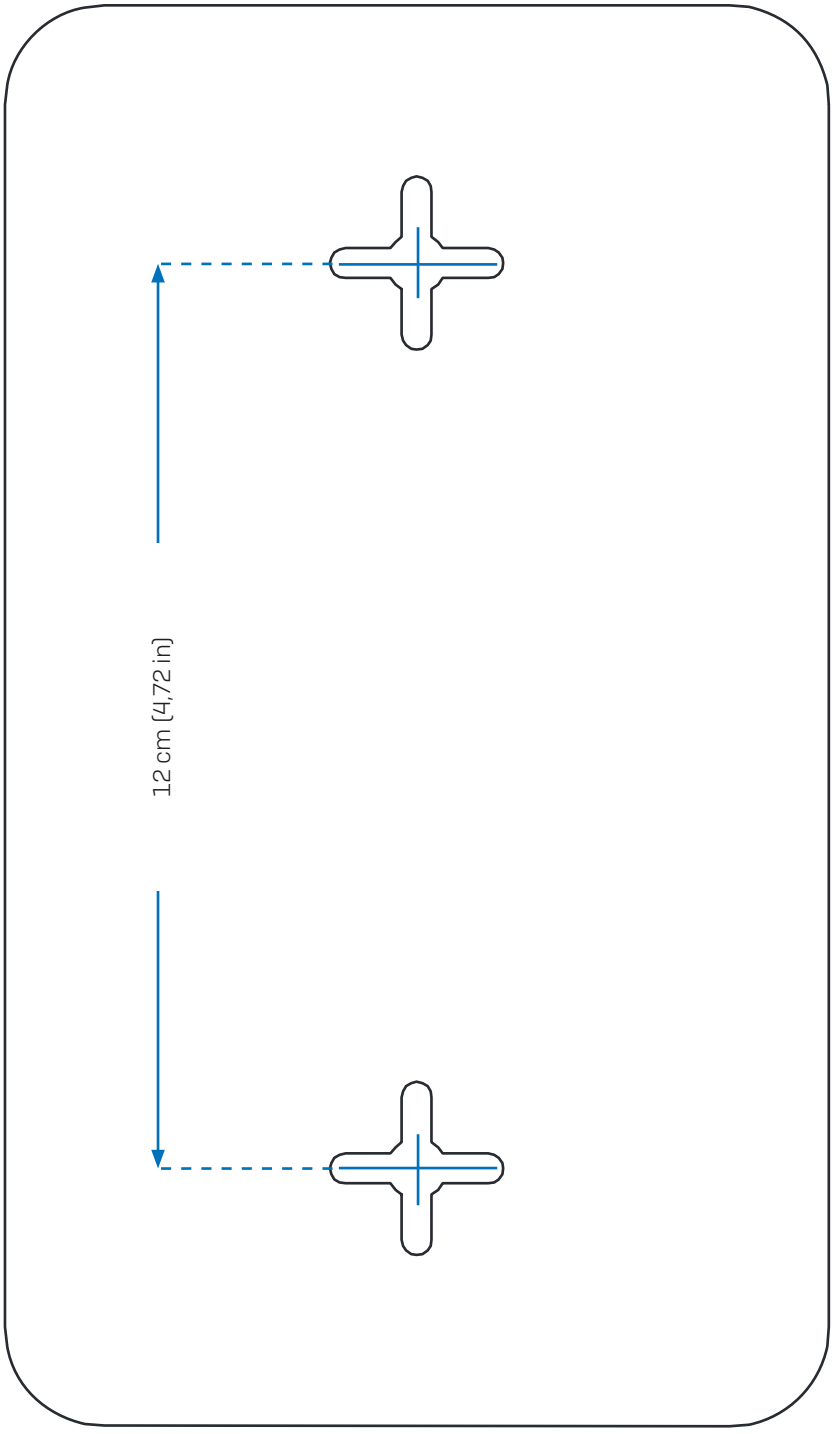
| Interfaces and buttons | |
|---|---|
| **12V DC-IN** | Power |
| **LAN (PoE)** | 10/100/1000 Base-TX interface |

## Technical specifications

| Sophos AP 15 | | |
|---|---|---|
| **Chassis** | Plastic housing, white | |
| **Maximum throughput** | 300 Mbit/s | |
| **LAN interfaces** | 1 x 10/100/1000 Base-TX | |
| **Supported WLAN standards** | 802.11 b/g/n 2.4 GHz | |
| **Antenna** | 2 x detachable dipole antenna (2 dBi) | Connector type: RP-SMA |
| **Frequencies / channels** | ETSI | FCC |
| | 2.412–2.472 GHz (Channels 1-13) | 2.412-2.462 GHz (channels 1-11) |
| **Power supply** | 12 Vdc / 1 A | |
| **Power consumption** | 2.5 W (max.) | |
| **Power-over-Ethernet** | 802.3af | |
| **Dimensions W x H x D** | 194 x 32 x 115 mm | |
| **Weight** | 260g | |
| **Temperature range** | Operating: 0°C to 45°C | Storage: -20°C to 60°C |
| **Humidity (non-condensing)** | 0% to 90% | |
| **Mounting** | Desktop / wall | |
| **Supported security standards** | WPA/WPA2, WEP, 802.1X (RADIUS) | |
| **Number of supported SSIDs** | 8 | |
| **Regulatory compliance** | CE, FCC, IC, CB, cULus, SRRC | |

## AP 15 Mounting template

Do not shrink to fit when printing



# AP 15C

## Scope of supply

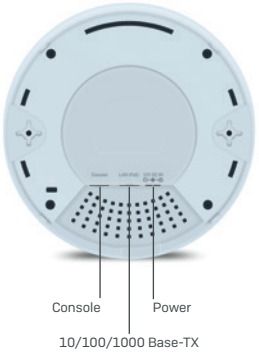
Sophos AP 15C


Security Notes

Mounting bracket

Screws and T-rail clips

Ethernet cable




**Important note**: Sophos AP 15C requires Sophos UTM V 9.400 to be installed.

## Mounting instructions

The Sophos AP 15C can be mounted on the ceiling. Screws are included in delivery. Use the screws from the scope of supply or screws whose dimensions correspond with the mounting holes in the bracket.

1. Mount the bracket on the ceiling.
   Use the screws and anchors from the scope of supply.
2. Place the access point on the bracket.
   Place the housing on the bracket and lock it by turning clockwise until stop.

## Controls

| LED | |
|---|---|
| **Green - blinking slowly** | AP is booting |
| **Green - blinking rapidly** | Network connectivity |
| **Orange - blinking slowly** | No connection to the Sophos UTM |
| **Orange - blinking rapidly** | Firmware update |

| Interfaces and buttons | |
|---|---|
| **12V DC-IN** | Power |
| **LAN (PoE)** | 10/100/1000 Base-TX interface |

## Technical specifications

| Sophos AP 15C | | |
|---|---|---|
| **Chassis** | Plastic, white | |
| **Physical security** | Kensington lock | |
| **Maximum theoretical throughput** | 300 Mbps (5GHz / 802.11an) + 300 Mbps (2.4GHz / 802.11n) | |
| **LAN interfaces** | 1 x 10/100/1000 Base-TX | |
| **Supported WLAN standards** | 802.11a/b/g/n | |
| **Antenna** | 4 x internal antennas | |
| **Frequencies / channels** | ETSI | |
| | 2.412–2.472 GHz (Channels 1-13) | 5.180-5.240GHz (channels 36-48) |
| | FCC | |
| | 2.412-2.462GHz (channels 1-11) | U-NII-1: 5.180-5.240GHz (channels 36-48)<br>U-NII-3: 5.745-5.825GHz (channels 149-165) |
| | MIC | |
| | 2.412-2.472GHz (channels 1-13) | W52: 5.180-5.240GHz (channels 36-48) |
| **Power supply** | 12 Vdc / 1 A | |
| **Power consumption** | 7 W (max.) | |
| **Power-over-Ethernet** | 802.3af | |
| **Dimensions W x H x D** | 176 x 29.86mm | |
| **Weight** | 265g | |
| **Temperature range** | Operating: 0°C to 50°C | |
| **Humidity (non-condensing)** | 0% to 90% | |
| **Mounting** | Ceiling | |
| **Supported security standards** | WPA/WPA2, WEP, 802.1X (RADIUS) | |
| **Number of supported SSIDs** | 8 | |
| **Regulatory compliance** | CB, CE, UL, FCC, IC, MIC, VCCI, RCM | |

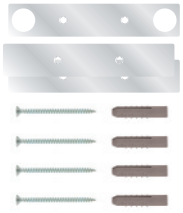
# AP 55

## Scope of supply

Sophos AP 55


Security Notes

2 Detachable dipole antenna



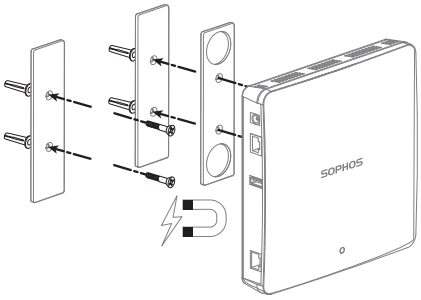
4 screws, dowels and metal plates

Ethernet cable

**Important note**: Sophos AP 55 requires Sophos UTM V 9.308 to be installed.

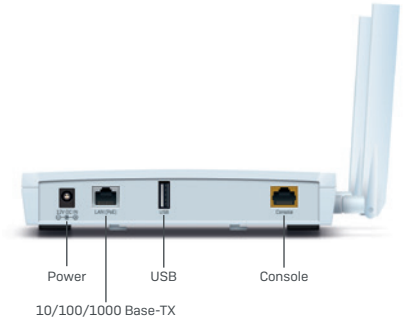
## Mounting instructions

The Sophos AP 55 can be mounted on the wall. A mounting kit is included in delivery.




## Controls

| LED | |
|---|---|
| **Green - blinking slowly** | AP is booting |
| **Green - blinking rapidly** | Network connectivity |
| **Orange - blinking slowly** | No connection to the Sophos UTM |
| **Orange - blinking rapidly** | Firmware update |




| Interfaces and buttons | |
|---|---|
| **12V DC-IN** | Power |
| **LAN (PoE)** | 10/100/1000 Base-TX interface |
| **Console** | Console access for debugging purposes |
| **USB** | Currently not used; reserved for future use |

## Technical specifications

| Sophos AP 55 | | |
|---|---|---|
| **Chassis** | Plastic housing, white | |
| **Physical security** | Kensington lock | |
| **Maximum theoretical throughput** | 867 Mbps (5GHz / 802.11ac) + 300 Mbps (2.4GHz / 802.11n) | |
| **LAN interfaces** | 1 x 10/100/1000 Base-TX | |
| **Supported WLAN standards** | 802.11a/b/g/n/ac | |
| **Antenna** | 2 x detachable dipole antenna (2 dBi) | Connector type: RP-SMA |
| **Frequencies / channels** | ETSI | |
| | 2.412–2.472 GHz (Channels 1-13) | RLAN sub-band 1:<br>5.180-5.320GHz<br>(channels 36-64)<br>RLAN sub-band 2:<br>5.500-5.580GHz<br>(channels 100-116)<br>5.660-5.700GHz<br>(channels 132-140) |
| | FCC | |
| | 5.180-5.240GHz<br>(channels 36-48) | U-NII-1:<br>5.180-5.240GHz<br>(channels 36-48)<br>U-NII-2:<br>5.260-5.320GHz<br>(channels 52-64)<br>U-NII-2e:<br>5.500-5.580GHz<br>(channels 100-116)<br>5.660-5.700GHz<br>(channels 132-140)<br>U-NII-3:<br>5.745-5.825GHz<br>(channels 149-165) |
| **Power supply** | 12 Vdc / 4 A | |
| **Power consumption** | 17 W (max.) | |
| **Power-over-Ethernet** | 802.3at | |
| **Dimensions W x H x D** | 183 x 36 x 183 mm | |
| **Weight** | 500g | |
| **Temperature range** | Operating: 0°C to 50°C | |
| **Humidity (non-condensing)** | 0% to 90% | |
| **Mounting** | Desktop / wall | |
| **Supported security standards** | WPA/WPA2, WEP, 802.1X (RADIUS) | |
| **Number of supported SSIDs** | 8 per radio (16 in total) | |
| **Regulatory compliance** | CE, FCC, IC, CB, cULus, MIC, VCCI | |

# AP 55C

## Scope of supply

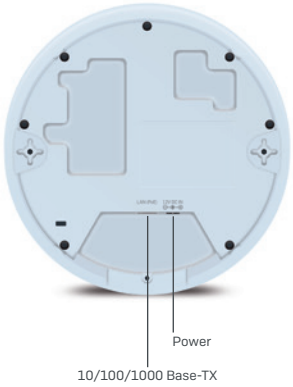
Sophos AP 55C


Security Notes

Mounting bracket

Screws and T-rail clips

Ethernet cable




**Important note**: Sophos AP 55C requires Sophos UTM V 9.308 to be installed.

## Mounting instructions

The Sophos AP 55C can be mounted on the ceiling. Screws are included in delivery. Use the screws from the scope of supply or screws whose dimensions correspond with the mounting holes in the bracket.

1. Mount the bracket on the ceiling.
   Use the screws and anchors from the scope of supply.
2. Place the access point on the bracket.
   Place the housing on the bracket and lock it by turning clockwise until stop.

## Controls

| LED | |
|---|---|
| **Green - blinking slowly** | AP is booting |
| **Green - blinking rapidly** | Network connectivity |
| **Orange - blinking slowly** | No connection to the Sophos UTM |
| **Orange - blinking rapidly** | Firmware update |

| Interfaces and buttons | |
|---|---|
| **12V DC-IN** | Power |
| **LAN (PoE)** | 10/100/1000 Base-TX interface |

## Technical specifications

| Sophos AP 55C | | |
|---|---|---|
| **Chassis** | Top enclosure: plastic, white; bottom enclosure: metal, white | |
| **Physical security** | Kensington lock | |
| **Maximum theoretical throughput** | 867 Mbps (5GHz / 802.11ac) + 300 Mbps (2.4GHz / 802.11n) | |
| **LAN interfaces** | 1 x 10/100/1000 Base-TX | |
| **Supported WLAN standards** | 802.11a/b/g/n/ac | |
| **Antenna** | 4 x internal antennas | |
| **Frequencies / channels** | ETSI | |
| | 2.412–2.472 GHz (Channels 1-13) | RLAN sub-band 1:<br>5.180-5.320GHz<br>(channels 36-64)<br>RLAN sub-band 2:<br>5.500-5.580GHz<br>(channels 100-116)<br>5.660-5.700GHz<br>(channels 132-140) |
| | FCC | |
| | 2.412-2.462GHz (channels 1-11) | U-NII-1:<br>5.180-5.240GHz<br>(channels 36-48)<br>U-NII-2:<br>5.260-5.320GHz<br>(channels 52-64)<br>U-NII-2e:<br>5.500-5.580GHz<br>(channels 100-116)<br>5.660-5.700GHz<br>(channels 132-140)<br>U-NII-3:<br>5.745-5.825GHz<br>(channels 149-165) |
| **Power supply** | 12 Vdc / 1.5 A | |
| **Power consumption** | 20 W (max.) | |
| **Power-over-Ethernet** | 802.3at | |
| **Dimensions W x H x D** | 200 x 37mm | |
| **Weight** | 630g | |
| **Temperature range** | Operating: 0°C to 50°C | |
| **Humidity (non-condensing)** | 0% to 90% | |
| **Mounting** | Ceiling | |
| **Supported security standards** | WPA/WPA2, WEP, 802.1X (RADIUS) | |
| **Number of supported SSIDs** | 8 per radio (16 in total) | |
| **Regulatory compliance** | CE, FCC, IC, CB, cULus, SRRC, NCC, BSMI | |

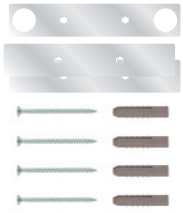
# AP 100

## Scope of supply

Sophos AP 100


Security Notes

3 Detachable dipole antenna



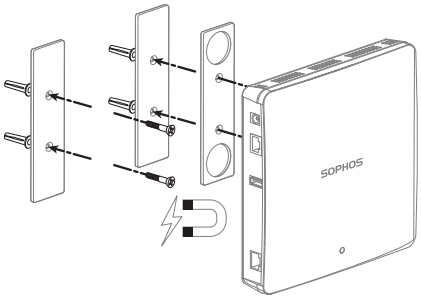
4 screws, dowels and metal plates

Ethernet cable

**Important note**: Sophos AP 55 requires Sophos UTM V 9.308 to be installed.

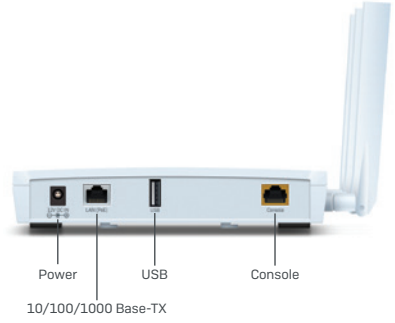
## Mounting instructions

The Sophos AP 55 can be mounted on the wall. A mounting kit is included in delivery.




## Controls

| LED | |
|---|---|
| **Green - blinking slowly** | AP is booting |
| **Green - blinking rapidly** | Network connectivity |
| **Orange - blinking slowly** | No connection to the Sophos UTM |
| **Orange - blinking rapidly** | Firmware update |




| Interfaces and buttons | |
|---|---|
| **12V DC-IN** | Power |
| **LAN (PoE)** | 10/100/1000 Base-TX interface |
| **Console** | Console access for debugging purposes |
| **USB** | Currently not used; reserved for future use |

## Technical specifications

| Sophos AP 100 | | |
|---|---|---|
| **Chassis** | Plastic housing, white | |
| **Physical security** | Kensington lock | |
| **Maximum theoretical throughput** | 1.3 Gbps (5GHz / 802.11ac) + 450 Mbps (2.4GHz / 802.11n) | |
| **LAN interfaces** | 1 x 10/100/1000 Base-TX | |
| **Supported WLAN standards** | 802.11a/b/g/n/ac | |
| **Antenna** | 3 x detachable dipole antenna (2 dBi) | Connector type: RP-SMA |
| **Frequencies / channels** | ETSI | |
| | 2.412–2.472 GHz (Channels 1-13) | RLAN sub-band 1:<br>5.180-5.320GHz<br>(channels 36-64)<br>RLAN sub-band 2:<br>5.500-5.580GHz<br>(channels 100-116)<br>5.660-5.700GHz<br>(channels 132-140) |
| | FCC | |
| | 2.412-2.462GHz (channels 1-11) | U-NII-1:<br>5.180-5.240GHz<br>(channels 36-48)<br>U-NII-2:<br>5.260-5.320GHz<br>(channels 52-64)<br>U-NII-2e:<br>5.500-5.580GHz<br>(channels 100-116)<br>5.660-5.700GHz<br>(channels 132-140)<br>U-NII-3:<br>5.745-5.825GHz<br>(channels 149-165) |
| **Power supply** | 12 Vdc / 4 A | |
| **Power consumption** | 17 W (max.) | |
| **Power-over-Ethernet** | 802.3at | |
| **Dimensions W x H x D** | 183 x 36 x 183 mm | |
| **Weight** | 505g | |
| **Temperature range** | Operating: 0°C to 50°C | |
| **Humidity (non-condensing)** | 0% to 90% | |
| **Mounting** | Desktop / wall | |
| **Supported security standards** | WPA/WPA2, WEP, 802.1X (RADIUS) | |
| **Number of supported SSIDs** | 8 per radio (16 in total) | |
| **Regulatory compliance** | CE, FCC, IC, CB, cULus | |

# AP 100C

## Scope of supply

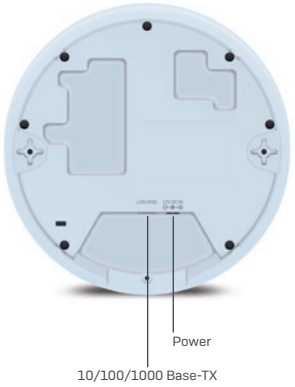
Sophos AP 100C


Security Notes

Mounting bracket

Screws and T-rail clips

Ethernet cable




**Important note**: Sophos AP 100C requires Sophos UTM V 9.308 to be installed.

## Mounting instructions

The Sophos AP 100C can be mounted on the ceiling. Screws are included in delivery. Use the screws from the scope of supply or screws whose dimensions correspond with the mounting holes in the bracket.

1. Mount the bracket on the ceiling.
   Use the screws and anchors from the scope of supply.
2. Place the access point on the bracket.
   Place the housing on the bracket and lock it by turning clockwise until stop.

## Controls

| LED | |
|---|---|
| **Green - blinking slowly** | AP is booting |
| **Green - blinking rapidly** | Network connectivity |
| **Orange - blinking slowly** | No connection to the Sophos UTM |
| **Orange - blinking rapidly** | Firmware update |

| Interfaces and buttons | |
|---|---|
| **12V DC-IN** | Power |
| **LAN (PoE)** | 10/100/1000 Base-TX interface |

## Technical specifications

| Sophos AP 100C | | |
|---|---|---|
| **Chassis** | Top enclosure: plastic, white; bottom enclosure: metal, white | |
| **Physical security** | Kensington lock | |
| **Maximum theoretical throughput** | 1.3 Gbps (5GHz / 802.11ac) + 450 Mbps (2.4GHz / 802.11n) | |
| **LAN interfaces** | 1 x 10/100/1000 Base-TX | |
| **Supported WLAN standards** | 802.11a/b/g/n/ac | |
| **Antenna** | 6 x internal antennas | |
| **Frequencies / channels** | ETSI | |
| | 2.412–2.472 GHz (Channels 1-13) | RLAN sub-band 1<br>5.180-5.320GHz<br>(channels 36-64)<br>RLAN sub-band 2:<br>5.500-5.580GHz<br>(channels 100-116)<br>5.660-5.700GHz<br>(channels 132-140) |
| | FCC | |
| | 2.412-2.462GHz (channels 1-11) | U-NII-1:<br>5.180-5.240GHz<br>(channels 36-48)<br>U-NII-2:<br>5.260-5.320GHz<br>(channels 52-64)<br>U-NII-2e:<br>5.500-5.580GHz<br>(channels 100-116)<br>5.660-5.700GHz<br>(channels 132-140)<br>U-NII-3:<br>5.745-5.825GHz<br>(channels 149-165) |
| **Power supply** | 12 Vdc / 1.5 A | |
| **Power consumption** | 20 W (max.) | |
| **Power-over-Ethernet** | 802.3at | |
| **Dimensions W x H x D** | 200 x 37mm | |
| **Weight** | 630g | |
| **Temperature range** | Operating: 0°C to 50°C | |
| **Humidity (non-condensing)** | 0% to 90% | |
| **Mounting** | Ceiling | |
| **Supported security standards** | WPA/WPA2, WEP, 802.1X (RADIUS) | |
| **Number of supported SSIDs** | 8 per radio (16 in total) | |
| **Regulatory compliance** | CE, FCC, IC, CB, cULus, NCC, BSMI | |

# AP 100X

## Scope of supply

Sophos AP 100X


Security Notes

6 Detachable dipole antenna

4 wood screws and wood/gyprock plug, 4 M6 screws and washers

1 wall mount plate

2 metal straps

1 M25 cable gland

Grounding wire

Ethernet cable

**Important note:** Sophos AP 100X requires Sophos UTM V 9.308 to be installed.

## Mounting instructions

The Sophos AP 100X can be mounted on a pole. A mounting kit is included in delivery.

**Warning:** The equipment has a separate protective earthing terminal on the chassis that must be permanently connected to earth ground to adequately ground the chassis and protect the operator from electrical hazards.

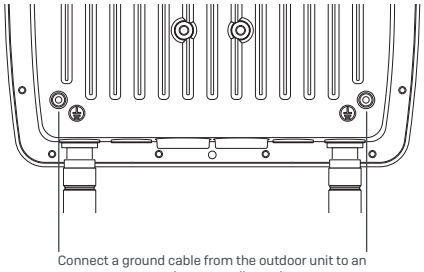
**Caution:** Before equipment installation begins, ensure that a service personnel has attached an appropriate grounding lug to the grounding cable that you supply.

Power installation must be performed with qualified electrician and followed with National Electrical Code, ANSI/NFPA 70 and Canadian Electrical Code, Part I, CSA C22.1.

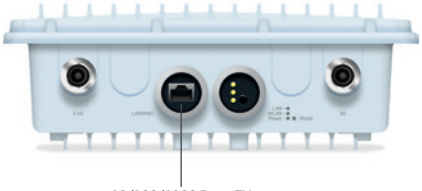
To connect earth ground to Unit:

1. Connect one end of the grounding cable to a proper earth ground.
2. Place the grounding lug attached to the grounding cable over the protective earthing terminal.
3. Secure the grounding lug to the protective earthing terminal with the washers and screws.
4. Dress the grounding cable and ensure that it does not touch or block access to other components.

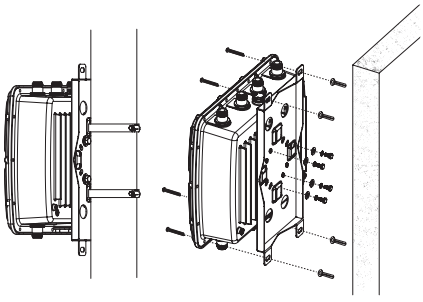
**Warning:** At first before powered on, connect the frame of the unit to earth. For earthing wire, green-and-yellow insulation is required and the cross-sectional area of the conductor must be more than 0.75mm2 or 18 AWG.



Connect a ground cable from the outdoor unit to an appropriate grounding point.



10/100/1000 Base-TX



## Controls

| LED | |
|---|---|
| **Power (Green) - continuously on** | Power on |
| **WLAN (Green) - blinking rapidly** | WLAN activity |
| **WLAN (Green) - blinking regularly** | Firmware update |
| **LAN (Green) - blinking rapidly** | Network connectivity |

| Interfaces and buttons | |
|---|---|
| **LAN (PoE)** | 10/100/1000 Base-TX interface |
| **Reset** | Currently not supported |

## Technical specifications

| Sophos AP 100X | | |
|---|---|---|
| **Chassis** | Metal housing, white | |
| **IP Code** | 67 | |
| **Maximum throughput** | 1.3 Gbps (5GHz / 802.11ac) + 450 Mbps (2.4GHz / 802.11n) | |
| **Number of radios** | 2 | |
| **MIMO capabilities** | 3x3:3 | |
| **LAN interfaces** | 1 x 10/100/1000 Base-TX | |
| **Antenna** | 6 x external dipole antenna | Connector type: N-Type |
| **Antenna gain** | 4 dBi @ 2.4GHz, 6 dBi @5GHz | |
| **Supported WLAN standards** | 802.11a/b/g/n/ac | |
| **Frequencies / channels** | ETSI | |
| | 2.412-2.472GHz (channels 1-13) | RLAN sub-band 2:<br>5.500-5.580GHz<br>(channels 100-116)<br>5.660-5.700GHz<br>(channels 132-140) |
| | FCC | |
| | 2.412-2.462GHz (channels 1-11) | U-NII-2:<br>5.260-5.320GHz<br>(channels 52-64)<br>U-NII-2e:<br>5.500-5.580GHz<br>(channels 100-116)<br>5.660-5.700GHz<br>(channels 132-140)<br>U-NII-3:<br>5.745-5.825GHz<br>(channels 149-165) |
| **Power supply** | PoE only | |
| **Power consumption** | 17 W (max.) | |
| **Power-over-Ethernet** | 802.3at | |
| **Dimensions W x H x D** | 255 x 225 x 90 mm | |
| **Weight** | 2.5kg | |
| **Temperature range** | Operation: -20°C to 60°C | Storage: -30°C to 60°C |
| **Humidity (non-condensing)** | Operation: 0% to 90% | Storage: 0% to 95% |
| **Mounting** | Wall / Pole | |
| **Supported security standards** | WPA/WPA2, WEP, 802.1X (RADIUS) | |
| **Multiple SSIDs** | 8 per radio, 16 in total | |
| **Regulatory compliance** | CE, FCC, IC, CB, cULus | |

## Power-over-Ethernet injector

### Separate accessory to be used for the following Sophos Access Points: AP 15C, AP 55, AP 55C, AP 100, AP 100C and AP 100X

The PoE injector converts alternating current (AC) to direct current (DC), which is then provided over the Ethernet cable to power the Sophos Access Points.

### Installation

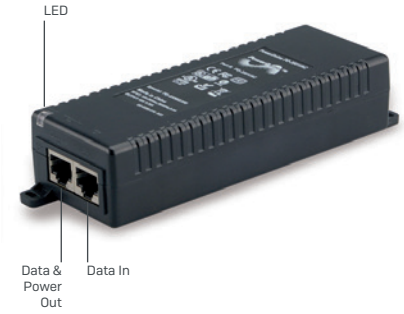
**Warning:** Do not use crossover cable between the PoE injector's output port and the access point.

Before placing the PoE injector, please pay attention to the following safety instructions:

- Do not cover the PoE injector or block the airflow to the PoE with any foreign objects. Keep the PoE away from excessive heat and humidity and free from vibration and dust.
- Ensure that the cable length from Ethernet network source to the access point does not exceed 100 m (330 ft). The PoE is not a repeater and does not amplify the Ethernet data signal.

To install the PoE injector, proceed as follows:

1. Connect an Ethernet cable to the Data & Power Out interface.
2. Connect the other end of this Ethernet cable to the Ethernet interface of the access point.
3. Connect an Ethernet cable to the Data In interface.
4. Connect the other end of this Ethernet cable to your network switch.
5. Connect the AC power cord from the scope of supply to the PoE injector.
6. Connect the AC power cable to an AC outlet (100-240 VAC).





### Controls

| LED display | |
|---|---|
| **Off** | Power off |
| **Yellow continuously** | Power on |
| **Green continuously** | A remote terminal is connected |
| **Green blinking** | Overload state or short-circuit |

| Interfaces | |
|---|---|
| **Input (Data In)** | 1 x 10/100/1000 Base-TX |
| **Output (Data & Power Out)** | 1 x 10/100/1000 Base TX, plus 55 VDC |

## Technical specifications

| Power-over-Ethernet injector | | |
|---|---|---|
| **Chassis** | Plastic housing | |
| **Input power** | AC Input Voltage: 100 to 240 VAC | |
| | AC Input Current: 0.8A @ 100-240 VAC | |
| | AC Frequency: 50 to 60 Hz | |
| **Power-over-Ethernet output (max.)** | Output power voltage: 55 VDC | |
| | Output power: 30 W | |
| **Supported PoE standard** | 802.3at compliant | |
| **Weight** | 200g | |
| **Dimensions W x H x D** | 1 x 10/100/1000 Base TX, plus 55 VDC | |
| **Mounting** | Desktop / wall | |
| **Temperature range** | Operation: 0°C to 40°C | Storage: -20°C to 70°C |
| **Humidity (non-condensing)** | 10% to 90% | |
| **Regulatory compliance** | CE, FCC, VCCI, UL, GS, RoHS, WEEE | |

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