

# SpaceLogic™ AD v3 Wi-Fi Module

## Wi-Fi Module

Part number: SXWADWIFI10002

### Safety Information

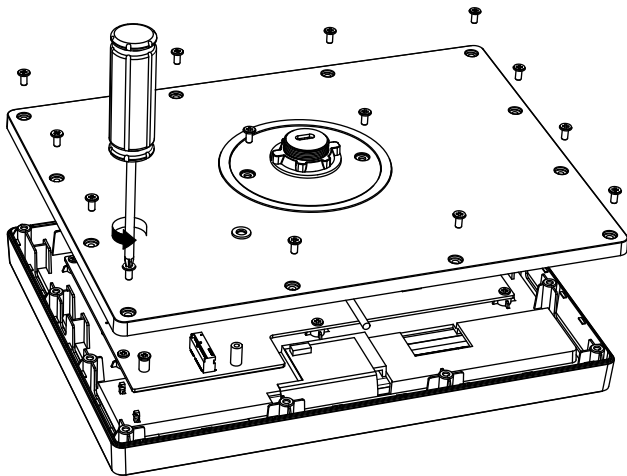
Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material. Carefully read these instructions and all information relevant for this product before trying to install it. See the list of technical literature.

### Technical Literature

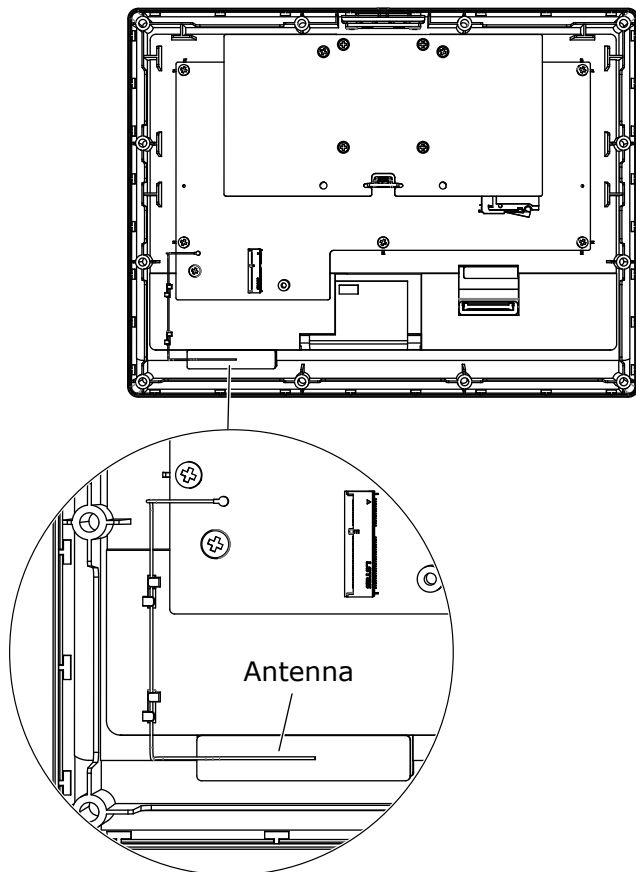
- SpaceLogic and EasyLogic - Hardware Reference Guide, 04-XX001-XX-en

The technical literature and declarations of conformity can be accessed on the Schneider Electric extranet, [ecoxpert.se.com](http://ecoxpert.se.com). Contact your local Schneider Electric sales office for a hard copy of the documentation or for additional information.

### Removing the AD v3 Back Cover



### Attaching the Antenna



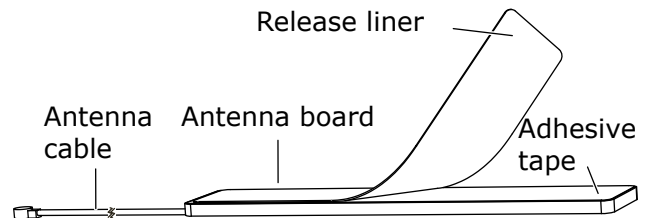
### Removing the Release Liner from the Antenna

#### NOTICE

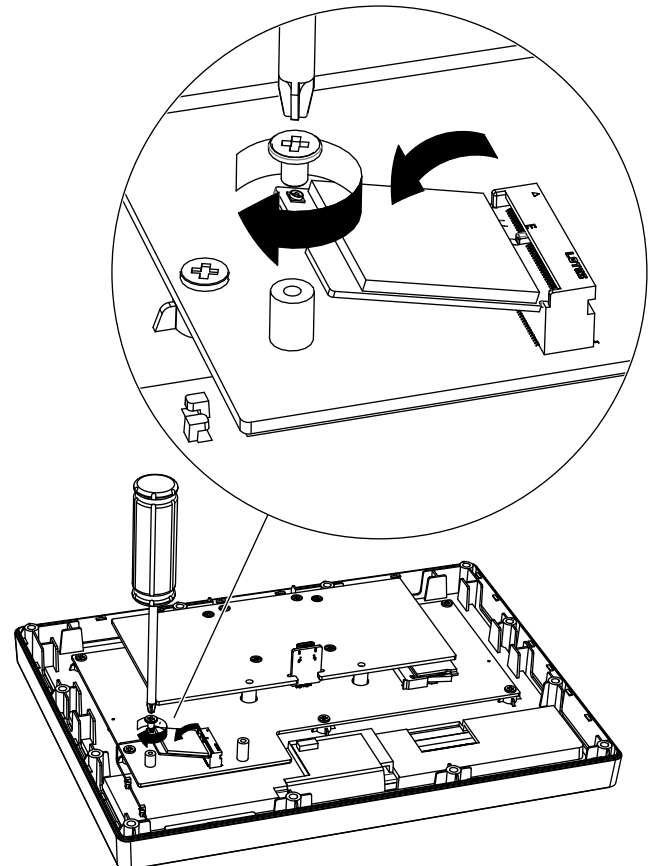
##### ANTENNA DAMAGE

Handle the antenna board and its integrated cable with care.

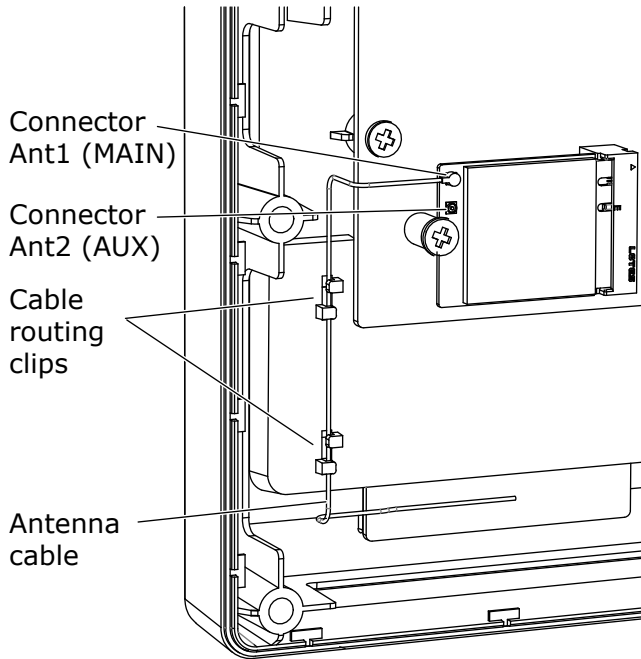
**Failure to follow these instructions can result in antenna damage.**



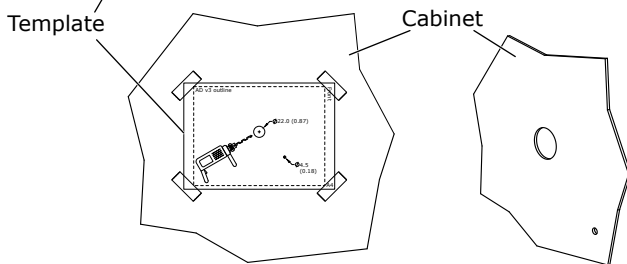
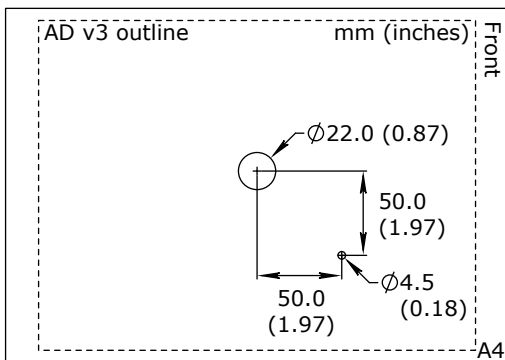
### Installing the Wi-Fi Module



## Connecting the Antenna Cable



## Making the Holes in a Cabinet



## Replacing the AD v3 Back Cover

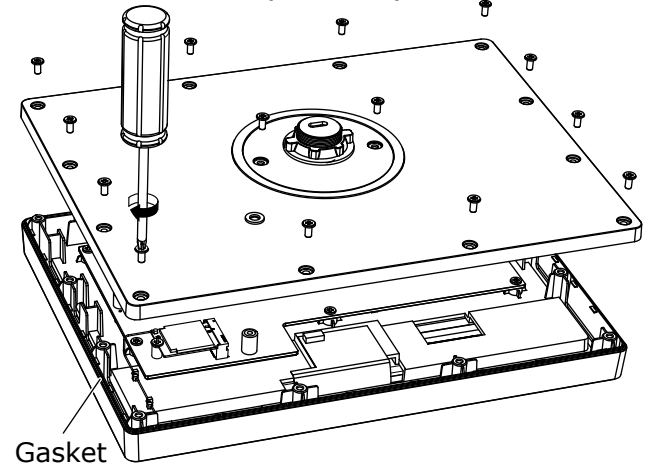
### NOTICE

#### EQUIPMENT DAMAGE

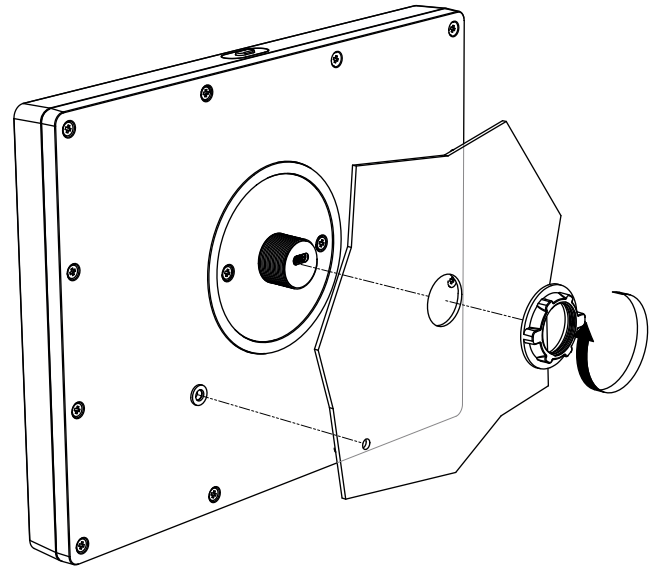
Ensure that the gasket is properly fitted into the groove of the front cover before replacing the back cover.

Failure to follow these instructions can result in equipment damage.

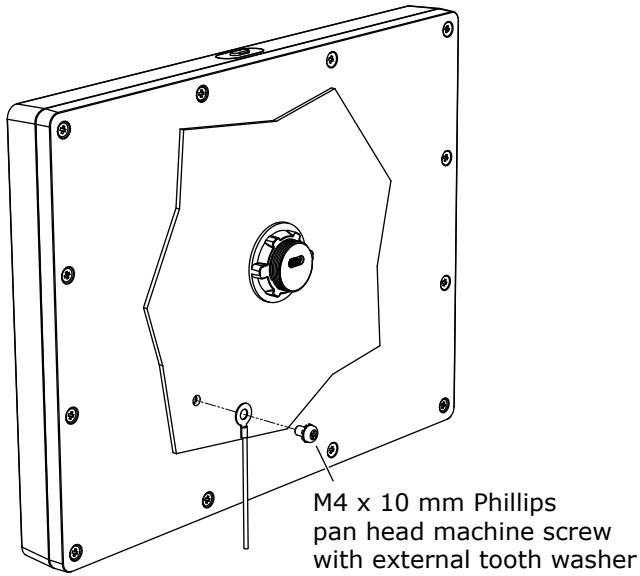
Maximum 0.4 Nm (3.5 lbf.in)



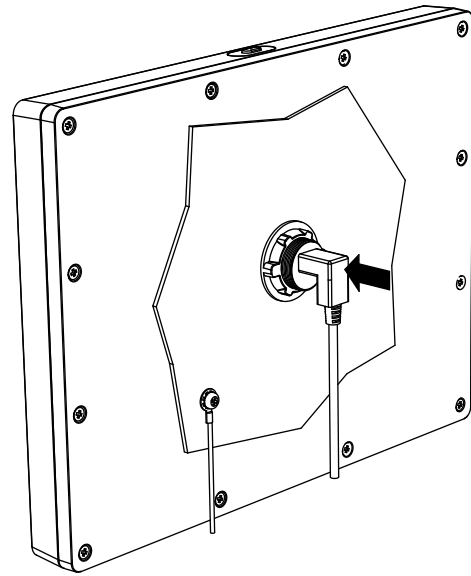
## Installing AD v3 on a Cabinet



### Connecting the Earth Ground Wire



### Connecting the AD v3 Cable



### Connecting AD v3 to a Power Supply

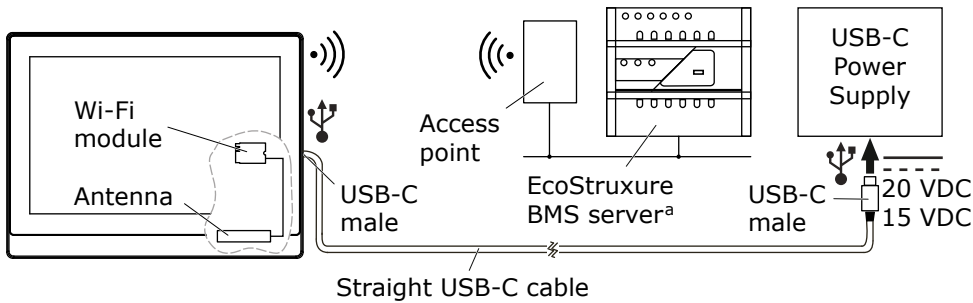
## NOTICE

#### USB DEVICE DAMAGE

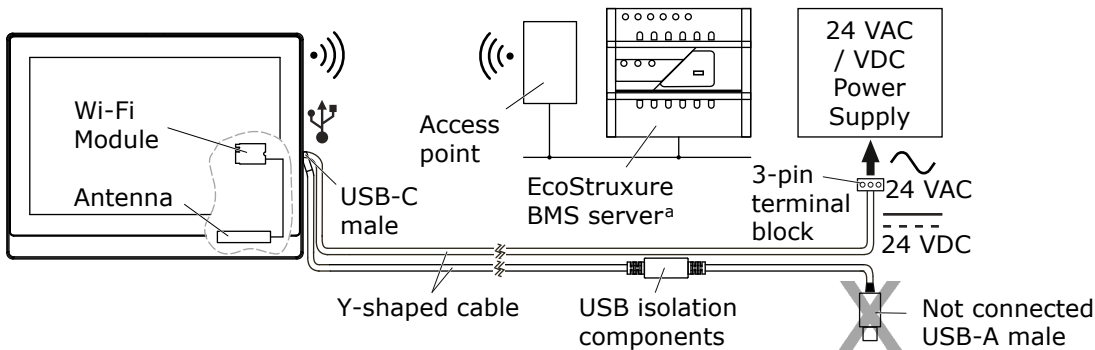
Do not use the Y-shaped cable to power any USB devices other than AD v3.

Failure to follow these instructions can result in USB device damage.

### Connection to a 20 VDC or 15 VDC USB-C power supply using the straight USB-C cable



### Connection to a 24 VAC or 24 VDC power supply using the Y-shaped cable



a) Automation server or Enterprise Server

**NOTE:** Both the Y-shaped cable with USB isolation (SXWADUSBC10012 or SXWADUSBC10013) and the cable without USB isolation (SXWADUSBC10002 or SXWADUSBC10003) can be used to connect AD v3 to a 24 VAC or 24 VDC power supply when Wi-Fi is used for communication with the EcoStruxure BMS server.

## Connecting AD v3 to a Wireless Access Point

- Press the AD v3 power button.
- From the Home screen, swipe up, and then tap **Settings**.
- Tap **Network & Internet** and then tap the Wi-Fi On/Off switch to turn Wi-Fi on, if required.
- Tap **Wi-Fi** and then tap the network you want to connect to.
- Type a password to connect, if required.

## Configuring Kiosk Mode

- Press the AD v3 power button.
- From the Home screen, tap the **HMI Kiosk** icon.
- Enter a password to be used for HMI Kiosk and tap **Submit**.
  - The password must be at least 12 characters long and include an uppercase character, a lowercase character, a digit, and a symbol. To use a shorter password, tap **Use a 6-character password**.
  - Each device should be configured with a strong and unique password. Do not reuse the password for multiple devices.
  - Remember the password as there is no recovery key.
- Change the WebStation address as required.
- Configure the screen timeout, if required.

- Select the **WebStation** shortcut to run in Kiosk mode.
- Tap **Lock & Launch**.

## Part Numbers

Device	Part number
AD v3 Wi-Fi Module	SXWADWIFI10002
AD v3 bundle	SXWADBUND10013
AD v3 cable, straight, USB-C, 2.4 m (7.87 ft)	SXWADUSBC10001
AD v3 cable with USB isolation, Y-shaped, 1.35 m (4.43 ft)	SXWADUSBC10012
AD v3 cable with USB isolation, Y-shaped, 2.85 m (9.35 ft)	SXWADUSBC10013
AD v3 cable, Y-shaped, 1.35 m (4.43 ft)	SXWADUSBC10002
AD v3 cable, Y-shaped, 2.85 m (9.35 ft)	SXWADUSBC10003

## Specifications

### Power input

#### AD v3 - Nominal voltage

24 VAC  $\sim$  50/60 Hz

24 VDC  $\text{---}$

20 VDC (USB-C)  $\text{---}$

15 VDC (USB-C)  $\text{---}$

#### Typical example of 24 VDC power supply

ABLM1A24012 (Schneider Electric)

#### Recommended USB power supply ratings

20 VDC, 1 A (20 W)

15 VDC, 1.5 A (22.5 W)

#### AD v3 - Power consumption

19.9 VA (0.83 A at 24 VAC)

17.5 W (0.73 A at 24 VDC)

17.8 W (0.89 A at 20 VDC)

19.4 W (1.29 A at 15 VDC)

#### Wi-Fi module - Power consumption

Maximum 0.79 W (3.3 V)

### Communications

#### Communication protocol

IEEE 802.11 a/b/g/n/ac

#### Frequency

2.412 to 2.484 GHz

4.915 to 5.925 GHz

### Radio signal range

40 m (131 ft) free space

### Security

WEP 64-bit and 128-bit encryption with TKIP, WPA/WPA2, AES-CCMP

### Connectors

#### Card connector

M.2 2230 connector, key E, PCI Express

#### Antenna connectors (card)

2 IPEX MHF4 connector receptacles:

Ant1 (Main): Wi-Fi Tx/Rx

Ant2 (Aux): Wi-Fi Tx/Rx

Use only the Ant1 connector receptacle.

### Antenna

#### Peak gain

2.91 dBi (at 2.484 GHz)

#### VSWR

$\leq$  2.5

Wi-Fi module - Operation environment

#### Ambient temperature, operating

0 to 70 °C (32 to 158 °F)

### Humidity

Maximum 85 % RH non-condensing

AD v3 - Operation environment

#### Ambient temperature, operating

0 to 40 °C (32 to 104 °F)

#### Humidity

Maximum 95 % RH non-condensing

Wi-Fi module - Mechanical

#### Dimensions (W x H x D)

22 x 30 x 2.25 mm (0.87 x 1.18 x 0.09 in.)

#### Weight

2.5 g (0.088 oz)

AD v3 - Mechanical

#### Ingress protection rating

IP 54

#### Plastic flame rating

UL94 V-0

#### Dimensions (W x H x D)

258 x 195.6 x 25 mm (10.2 x 7.7 x 1.0 in.)

#### Weight (excluding nut)

0.933 kg (2.056 lb)

## Addendum - California Proposition 65 Warning Statement for California Residents

For the Wi-Fi module and antenna, the following warning statement applies:

**⚠ WARNING:** This product can expose you to chemicals including Diisononyl phthalate (DINP), which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

For the AD v3 bundle, the following warning statement applies:

**⚠ WARNING:** This product can expose you to chemicals including lead and Diisononyl phthalate (DINP), which are known to the State of California to cause cancer, and lead, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

For the AD v3 cables, the following warning statement applies:

**⚠ WARNING:** This product can expose you to chemicals including Diisononyl phthalate (DINP), which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)