# SpaceLogic™ AD v3 Wi-Fi Module

Wi-Fi Module

Regulatory Compliance and 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.

The technical literature and declarations of conformity can be accessed on the Schneider Electric Exchange website, ecobuilding.schneider-electric.com. Contact your local Schneider Electric sales office for a hard copy of the documentation or for additional information.

Technical Literature

- SpaceLogic Hardware Reference Guide, 04-XX001-XX-en
- SpaceLogic AD v3 Installation Sheet, 02-XX020-XX-en
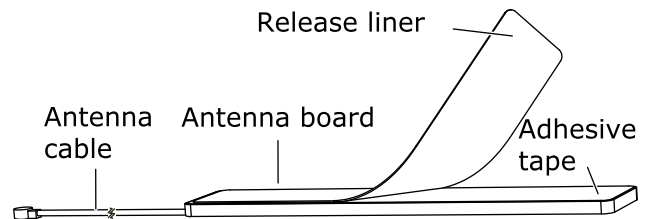
Removing the AD v3 Back Cover
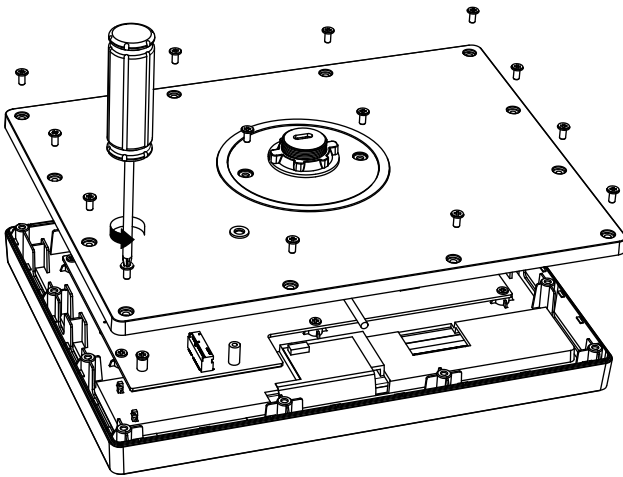
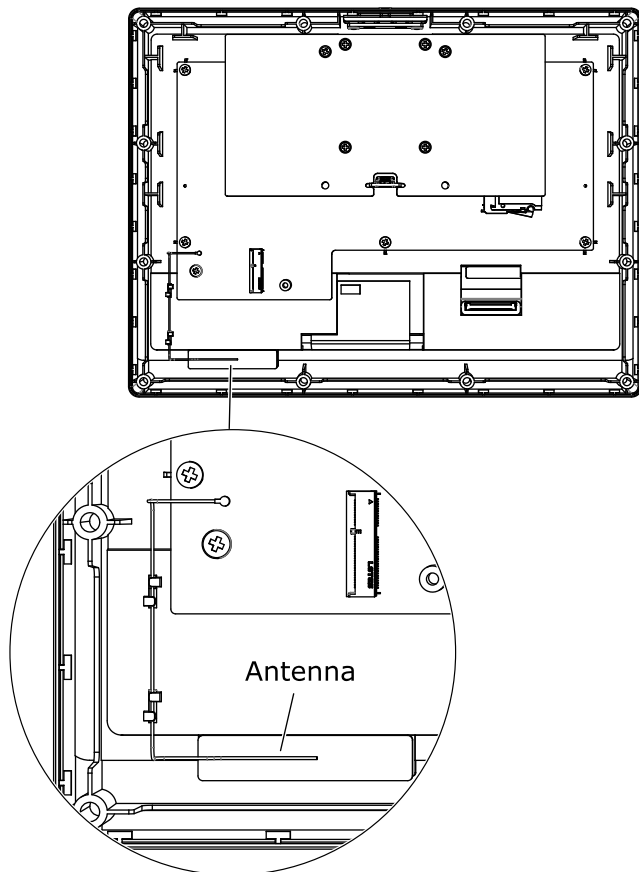
Removing the Release Liner from the Antenna

NOTICE

ANTENNA DAMAGE
Handle the antenna board and its integrated cable with care.
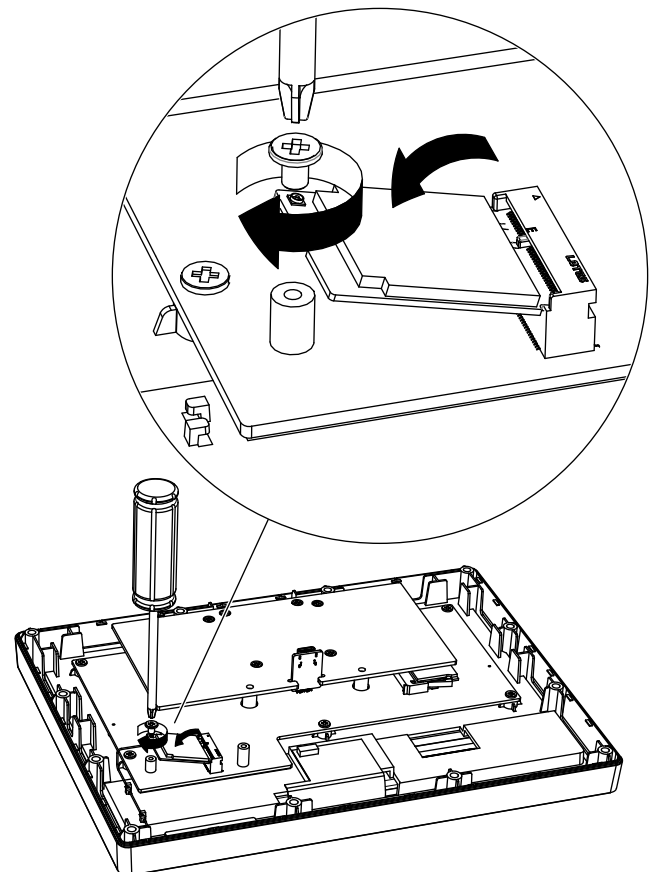
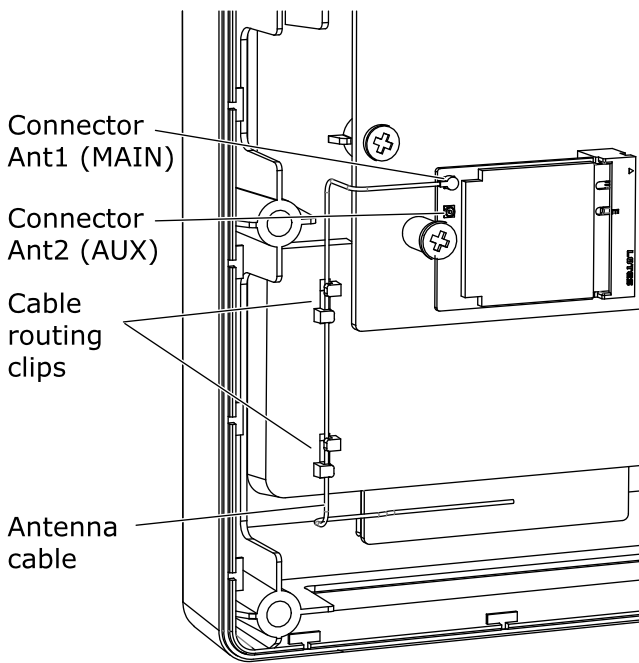**Failure to follow these instructions can result in antenna damage.**
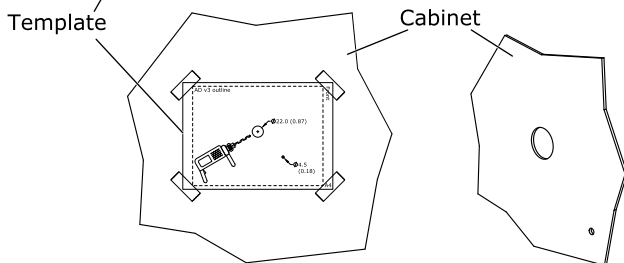

Release liner

Antenna cable   Antenna board   Adhesive tape

Attaching the Antenna

Antenna

Installing the Wi-Fi Module

Connecting the Antenna Cable

Connector
Ant1 (MAIN)

Connector
Ant2 (AUX)

Cable
routing
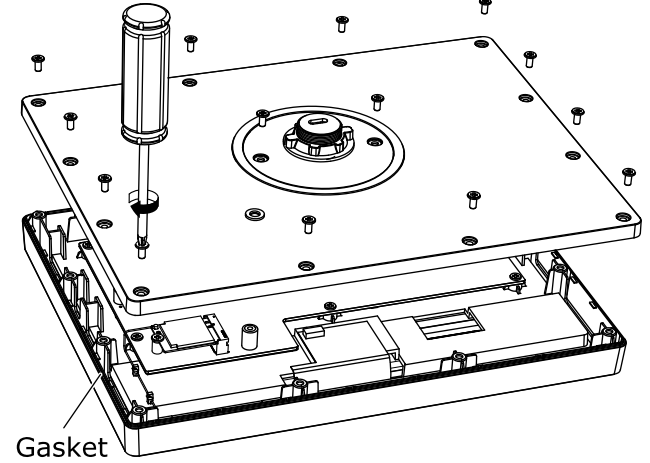clips

Antenna
cable

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.**

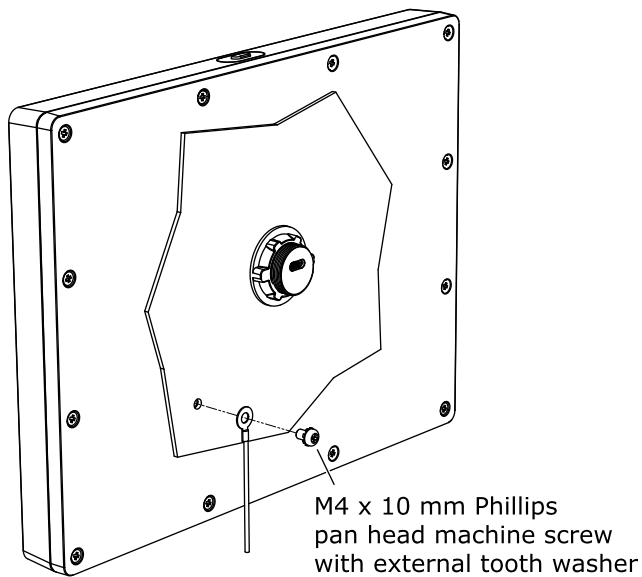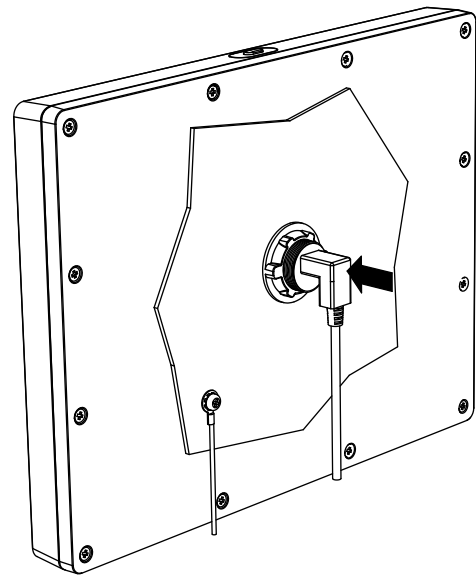Maximum 0.4 Nm (3.5 lbf.in)

Gasket

Making the Holes in a Cabinet

AD v3 outline   mm (inches)

Front

$\varnothing$22.0 (0.87)

50.0 (1.97)

$\varnothing$4.5 (0.18)

50.0 (1.97)

A4

Template

Cabinet

Installing AD v3 on a Cabinet
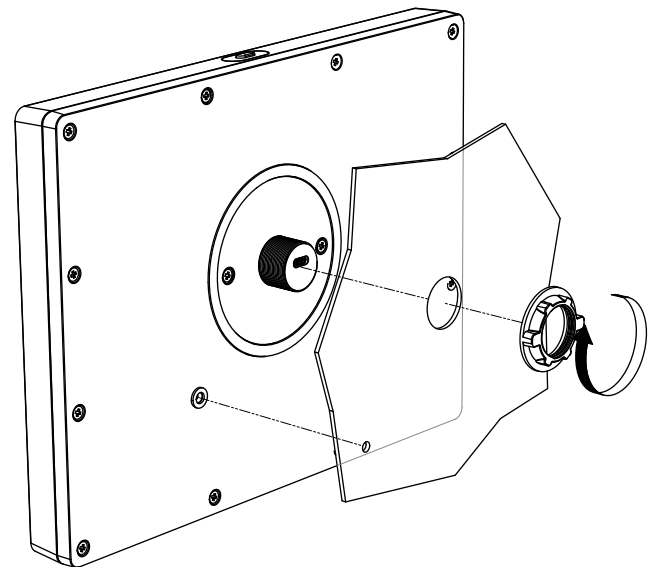
Connecting the Earth Ground Wire

M4 x 10 mm Phillips
pan head machine screw
with external tooth washer

Connecting the AD v3 Cable

Connecting AD v3 to a DC Power Supply

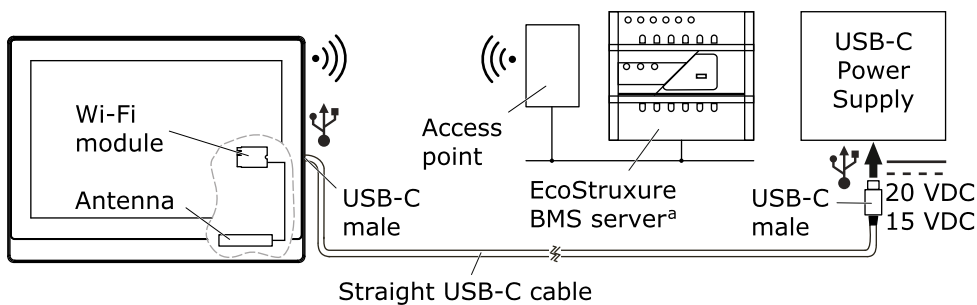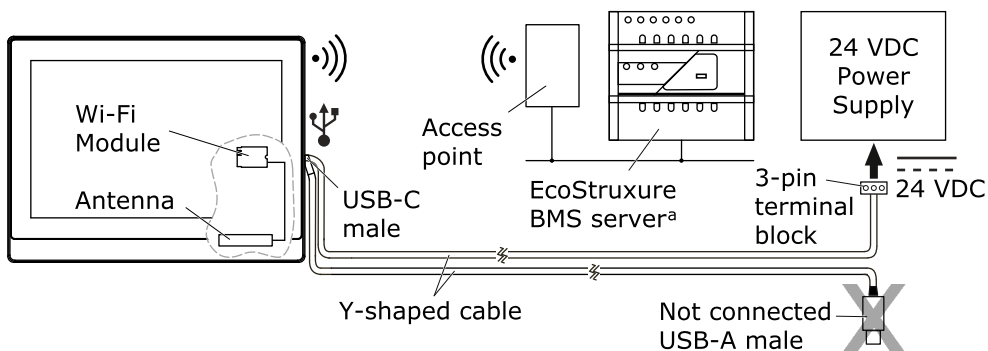### NOTICE

EQUIPMENT DAMAGE

• Never connect AD v3 to an AC power supply.
• Do not use the Y-shaped cable to power any USB devices other than AD v3.

Failure to follow these instructions can result in equipment damage.

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

Connection to 24 VDC power supply using Y-shaped cable

a) AS-P, AS-B, or Enterprise 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	SXWADWIFI10001
AD v3 bundle	SXWADBUND10003
AD v3 cable, straight, USB-C, 2.4 m (7.87 ft)	SXWADUSBC10001
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 VDC
20 VDC (USB-C)
15 VDC (USB-C)
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
17.3 W (0.72 A at 24 VDC)
17.6 W (0.88 A at 20 VDC)
19.0 W (1.27 A at 15 VDC)
Wi-Fi module - Power consumption
max. 0.66 W (199 mA at 3.3 V)

Communications
Communication protocol
IEEE 802.11 b/g/n
Frequency
2.412 to 2.472 GHz
Radio signal range
40 m (131 ft) free space
Security
WEP 64-bit and 128-bit key, WPA, WPA2

Connectors
Card connector
M.2 2230 connector, key E, PCI Express
Antenna connectors (card)
2 IPEX-4 connector receptacles:
Ant1 (MAIN): Wi-Fi Tx/Rx
Ant2 (AUX): Wi-Fi Rx
Use only the Ant1 connector receptacle.

Antenna
Peak gain
2.91 dBi (at 2.484 GHz)
VSWR
<= 2.5

Wi-Fi module - Operation environment
Ambient temperature, operating
0 to 70 °C (32 to 158 °F)
Humidity
15 to 95 % 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 2.3 mm (0.87 x 1.18 x 0.09 in.)
Weight
2.1 g (0.074 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)

Regulatory compliance
EMC, safety, and environment
FCC CFR 47 Part 15 Class B, ICES-003 Class B, RCM, CE - RED 2014/53/EU, RoHS 2011/65/EU and 2015/863/EU

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

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

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

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