

Avi-on Programming Tool



PRODUCT OVERVIEW

The **Avi-on Programming Tool (APT)** is a **plug-and-play Bluetooth® antenna** that delivers a stable, continuous connection for the Avi-on Mobile Commissioning App during project startup and commissioning.

Whether working near or far from devices on site, users can maintain reliable communication without interruption. By providing a consistent Bluetooth interface between the app and field devices, the APT helps ensure dependable performance across a variety of mobile phones. The result is a more streamlined commissioning experience with reduced downtime and improved productivity.

Applications

- Project startup and initial device commissioning
- Large-scale retrofits and new construction where consistent Bluetooth performance is critical
- Ongoing facility management and post-commissioning adjustments by facilities staff
- Any environment where cell phone Bluetooth antenna variation affects commissioning reliability
- Solution validated on projects up to 275 devices.

Setup & Operation

1. Power the APT

- Basic APT: Connect the Avi-on Antenna Dongle to your phone using the provided USB-C to USB-A cable.
- APT with Battery Pack: Connect the Dongle to the battery pack using the cable. Keep the APT within 10 feet of your phone at all times.

2. Enable the APT in the App

- Open the Avi-on Mobile Commissioning App and log in.
- Enable “Scan for Dongle Connection” (also accessible later in App Settings).

3. Confirm Bluetooth Connection

- Verify the Dongle icon appears in the upper-right corner of the App.

4. Commission

- Keep the APT within 10 feet of your phone throughout the commissioning process.

5. Leave with the Facilities Manager

- The APT is designed for ongoing use by facilities staff to adjust settings and maintain Avi-on lighting controls after project handoff.

Project		Location/ Type	
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ORDERING INFORMATION

Part Number	Name	Description
AVI-KIT-PGM-TOOL	Avi-on Programming Tool Kit	Handheld tool for Avi-on device programming and commissioning
AVI-KIT-PGM-TOOL-BAT	Avi-on Programming Tool Kit with Battery Pack	Handheld programming tool with extended battery pack for all-day field use.

SPECIFICATIONS

Avi-on Antenna Dongle (AVI-B-PRO-USB)

Inserted Dimensions (LxWxH):	53.0 × 25.0 × 11.0 mm (excl. USB-A connector)
Total Dimensions (LxWxH):	64.5 × 25.0 × 11.0 mm (incl. USB-A connector)
USB Protocol:	USB 2.0 Full Speed Compliant
Physical Connection:	USB Type-A Male
Driver Framework:	FTDI Virtual COM Port (VCP)
OS Compatibility:	Windows 10/11, macOS, Linux, Android
Input Voltage:	4.4V to 5.5V (USB 2.0 Compliant)
Current Draw:	18 mA
Radio Frequency:	2.4 GHz
Wireless Standard:	BLE 4.2 with Mesh

Point-to-Point Range:	80 ft with obstructions; 350 ft unobstructed*
Security:	AES 128-bit (device-to-device); AES 256-bit (device-to-cloud)
Operating Temperature:	-10°C to +70°C**
Storage Temperature:	-10°C to +70°C***
Humidity Rating:	95% non-condensing
Warranty:	5 years; 10 years optional
FCC ID:	2AFZI-AVIBG21
IC ID:	20544-AVIBG21
USB-IF Verification:	TID: 40001463

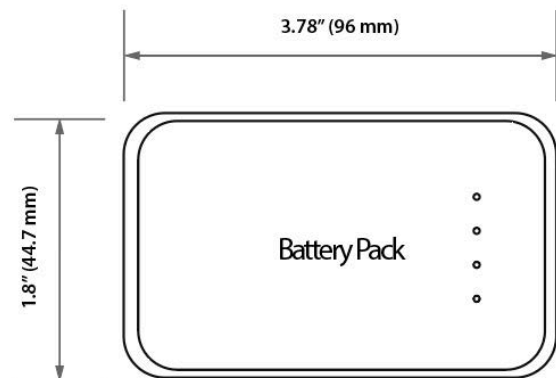
* When communicating through the mesh, range is essentially unlimited (5,000 ft+).

** Operating the dongle at or above specified limits may result in damage to components or product.

*** For temperatures below freezing or at dew point, the device should be sealed in a watertight container to prevent frost buildup.

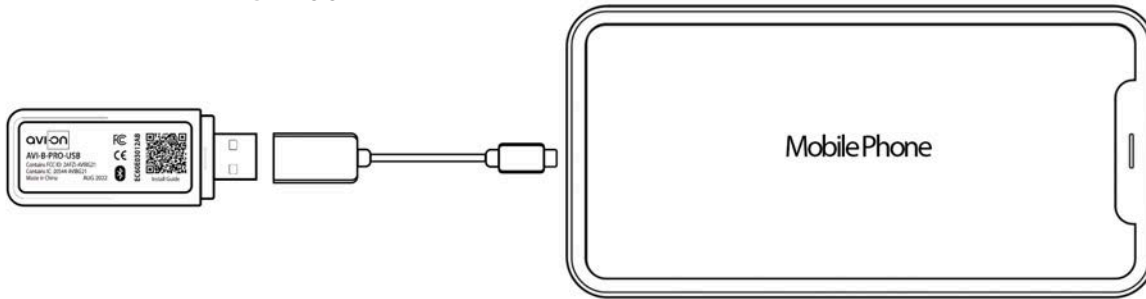
Portable Battery Pack (AVI-KIT-PGM-TOOL-BAT only)

Model:	Anker 321 Power Bank (PowerCore 5K) — Model A1112
Capacity:	5,200 mAh
Dimensions (LxHxW):	3.78" × 1.76" × 0.91" (96.0 × 44.7 × 23.1 mm)
Weight:	118 g (4.16 oz)
USB-A Output:	5V ◀ 2.4A (12W)
USB-C Output:	5V ◀ 2.4A (12W)
USB-C Input:	5V ◀ 2.4A (12W)
Total Max Output:	12W
Charging Technology:	PowerIQ with Trickle Charge Mode for low-powered devices
Safety:	MultiProtect: surge protection, short circuit prevention, temperature control, overcurrent protection
Included Cable:	2 ft (0.6 m) USB-A to USB-C

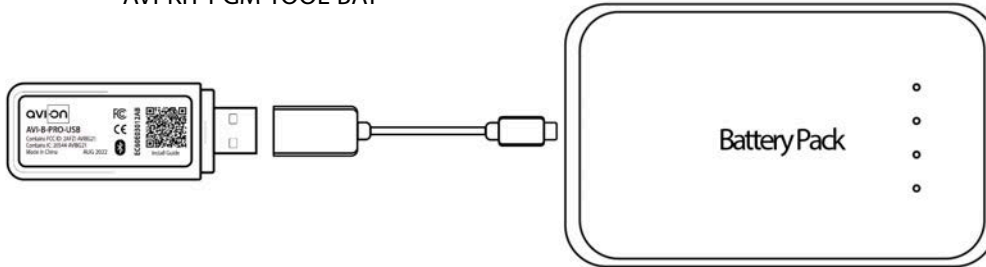


DIAGRAMS

Plug directly into phone AVI-KIT-PGM-TOOL



Plug into battery pack for extended life AVI-KIT-PGM-TOOL-BAT



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