

Indoor/Outdoor Cellular Antenna Kits are designed to increase cellular performance for Connect+™, BAT-Fire™, and BAT-Connect™.

Features

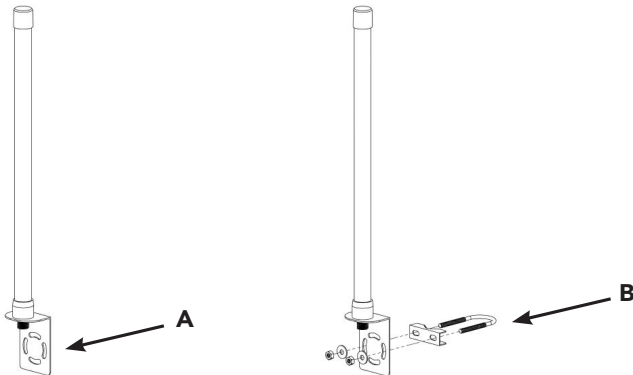
- Omni-directional radiation pattern
- Robust design for all weather operation
- IP66 rated
- Mounting bracket included
- 4', 20', 50', and 100' coaxial cable lengths available

Installation

1. For BAT-Fire, skip to step 6.
2. For Connect+ or BAT-Connect, install the SMA to MMCX adapter cable. Remove the internal antenna connected to the Antenna 1 or ANT1 location on the circuit board by pulling up gently on the internal antenna's connector to release it from the cellular module. Remove the internal antenna.
3. Break out the plastic knock-out at the top or side of the enclosure.
4. Install the large (SMA) end of the supplied cable in the hole of the enclosure and secure it with the supplied nut.
5. Snap the small (MMCX) end of the adapter cable onto the circuit board at the Antenna 1 or ANT1 antenna mounting connector.
6. Select a location and antenna mounting configuration (see below). Mount the antenna vertically for best performance. Antennas need to be in open air to communicate and should not be mounted inside a metal enclosure. **Note:** for BAT-Fire, the mounting bracket must be isolated from earth ground in commercial fire applications.

A. If mounting to a wall, use the mounting holes labeled below [A]. Secure to the wall using appropriate 1/4 inch screws (not provided).

B. If mounting to a pole, connect the U-bolt labeled below [B] using the hardware provided.



7. Attach the coaxial cable to the SMA connector at the top or side of the enclosure.
8. Attach the larger end of the coaxial cable to the antenna.

Pro Tips

- Select the appropriate cable length for the installation. Excessive cable may lead to unnecessary dB loss.
- Do not cut the cable.
- Mount the antenna as high as possible to optimize cellular strength.
- Locate the antenna away from metal objects (appliances, ducts).

Specifications

Physical	
Physical Contents	Antenna w/mounting bracket, coax cable, adapter cable, U-bolt kit (includes U-bolt, pipe bracket, washers, and nuts)
Antenna Type	Omni-directional antenna
Antenna Dimensions	18.78 inches (477 mm)
Antenna Color	White
Coax Cable	Premium low-loss UV resistant cable
Coax Cable Connectors	N male and SMA male
Adapter Cable	SMA female to MMCX male
Mounting Hardware	Clamping U-bolt (included), up to 1-3/8 inch diameter pole
RF Performance	
Frequency Band	698 - 2700 MHz
Nominal Impedance	50 Ohm
Antenna Gain	3.5 - 7.0 dBi
VSWR	1.5:1 (maximum)
Cable Loss (4 feet)	0.3 dB @ 700 MHz
Cable Loss (20 feet)	1.7 dB @ 700 MHz
Cable Loss (50 feet)	4.3 dB @ 700 MHz
Cable Loss (100 feet)	8.6 dB @ 700 MHz
Environmental	
Operating Temperature	-22°F to 158°F (-30°C to 70°C)
Water Resistance	IP66
Compatibility	
Alula Products	Connect+, BAT-Connect, BAT-Fire
Part Numbers	
RE050-4	Antenna, Indoor/Outdoor, Cellular, 4' Coax, Kit
RE050-20	Antenna, Indoor/Outdoor, Cellular, 20' Coax, Kit
RE050-50	Antenna, Indoor/Outdoor, Cellular, 50' Coax, Kit
RE050-100	Antenna, Indoor/Outdoor, Cellular, 100' Coax, Kit

Specifications subject to change without notice.

TRADEMARKS

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