



AP-IBR1100 MIMO

The Perfect All-In-One Antenna Solution Designed for the Cradlepoint COR IBR1100 Router



Available colors: Black or White

The AP-IBR1100 MIMO Antenna is designed specifically for the Cradlepoint COR-IBR1100 ruggedized router. This low profile housing provides an all-in-one antenna combination including: 2 high gain Cellular/LTE antennas, 2 high gain WiFi antennas (802.11 abgn,ac), and a GPS antenna. This can come with a threaded bolt mount, permanent adhesive mount or magnetic mount; color choices of black or white.

Key Benefits:

Faster Data Speeds: With the AP-IBR1100 MIMO Antenna, you will get superior Cellular/LTE data throughput speeds with the Multiple-In, Multiple-Out dual antennas. Our double Cellular/LTE antenna design takes advantage of the fastest speeds that the 4G/LTE network offers. Top WiFi speeds are achieved with our Double-WiFi antenna to offload large amounts of data or to push software updates to your computer at your WiFi hotspot.

GNSS Location Technology: GPS just got better. When used with a GPS receiver with GNSS capabilities and dead reckoning, the GPS antenna can access 4 different satellite constellations (GPS, GLONASS, Galileo and Beidou), utilizing up to 48 satellites. This provides better accuracy, faster time to first fix to acquire a satellite, as well as superior coverage in rural areas as well as dense downtown urban zones with skyscrapers.

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Bigger Wireless Footprint: By using the AP-IBR1100 MIMO Antenna, you can be farther away from a cell site or WiFi hotspot and still connect; up to 25% more wireless coverage, depending on the geography you travel in.

One Simple Installation: All antennas are built into one physical housing so that you only have to drill one hole for a fast and tidy installation. This reduces the need for multiple antennas on top of the vehicle.

Long Product Life: Our rugged, low profile design gives you protection against all of the natural hazards a vehicle faces including vibration, hot, cold, ice, salt, dirt, car washes, and tree branch sweeps. Our antennas typically outlast the life of vehicle.

Product	Cell/LTE	WiFi	GPS	Mount	Color
AP-IBR1100-Q-BL	✓✓	✓✓	✓	Bolt-On	Black
AP-IBR1100-Q-WH	✓✓	✓✓	✓	Bolt-On	White
AP-IBR1100-A-BL	✓✓	✓✓	✓	Adhesive	Black
AP-IBR1100-A-WH	✓✓	✓✓	✓	Adhesive	White
AP-IBR1100-M-BL	✓✓	✓✓	✓	Magnet	Black



AP-IBR1100 MIMO

Electrical Specifications

Frequencies:

Cellular/LTE = 698-960 MHz; 1710-1770 MHz; 1850-1995 MHz

WiFi = 2.4 & 5 GHz (802.11 a,b,g,n, ac)

GPS = 1575.42 MHz - 1602 MHz

VSWR: 1.5:1 or less at resonant point

Gain: 698-896 MHz: 3 dBi
1710-2620 MHz: 4 dBi

Radiation Pattern:

OMNI Directional
Hemispherical (GPS)

Polarization:

Vertical

Mechanical Specifications

Radome:

Glass Filled Polypropylene

Cable Length:

15 feet (4.5 m) (Adhesive and Bolt Mount)

10 feet (3 m) (Magnet Mount)

Optional cable length to 35 feet

Connectors:

Cell/LTE: (2) SMA Male Connectors

WiFi: (2) RP-SMA Male Connectors

GPS: (1) SMA Male Connector

Environmental Specifications

Temperature: - 40 °C to 85 °C (- 40 °F to +185 °F)
operating and storage

Humidity: (non-condensing) - 5% to 95%
operating and storage

Military Spec MIL-STD 810 conformance to thermal,
mechanical shock, and humidity.

GPS Antenna Specifications

Frequency Range 1575.42 MHz - 1602 MHz

Gain 28 dB min.

Polarization R.H.C.P.

(Right Hand Circular Polarization)

Noise Figure 2.0 max.

Arial Ratio 3 dB max.

Bandwidth 2 MHz min.

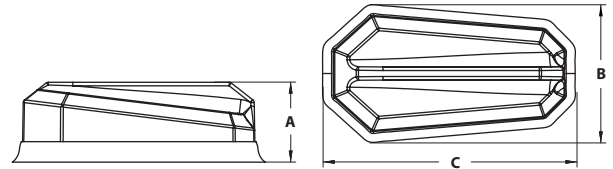
VSWR 2.0 max.

Output Impedance 50 Ohms

Voltage 2.7-5.6 Volts

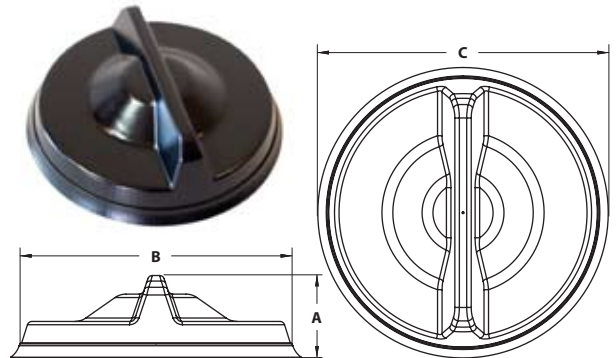
Current 10 mA ± 0.8 mA

Dimensions



A	B	C
2.220" (56.4 mm)	3.831" (97.3 mm)	7.000" (177.8 mm)

Built-in Metal Ground Plane



A	B	C
2.183" (55.5 mm)	7.074" (179.7 mm)	7.650" (194.3 mm)

Mounting Styles

