The Perfect All-In-One Solution for your In-Vehicle Mobile Access Router

The AP-Double Cell/LTE Antenna is the all-in-one, low profile housing that provides 2 high gain Multiple-In, Multiple-Out (MIMO) Cellular/LTE antennas. 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-Double Cell/LTE 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.

**Bigger Wireless Footprint:** By using the AP-Double Cell/LTE Antenna, you can be farther away from a cell site 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.

**Connects to mobile data wireless routers with TWO Cellular/LTE ports.**

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<tr>
<th>Product</th>
<th>Cell/LTE Antenna</th>
<th>WiFi Antenna</th>
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<td>AP-CC</td>
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3G/4G TECHNOLOGY

UP TO 25% GREATER COVERAGE

Antenna Plus LLC
8350 E. Evans Road, Suite D-2, Scottsdale, AZ 85260
Phone: 480.657.7354 - Fax: 480.657.0204 - orders@antennaplus.com
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Electrical Specifications

Frequencies:
Cellular/LTE = 824-896 MHz; 1850-1995 MHz;
698-798 MHz; 1710-1770 MHz;
2110-2170 MHz; 2570-2620 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:
The AP-Double Cell/LTE Antenna can come with any
RF connectors you need to connect to your modem.

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.

Dimensions

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Built-in Metal Ground Plane

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Mounting Styles

Threaded Bolt
Magnetic
Permanent Adhesive

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The Perfect All-In-One Solution for your In-Vehicle Mobile Access Router

The AP-Double Cell/LTE~GPS Antenna is the all-in-one, low profile housing that provides 2 high gain Multiple-In, Multiple-Out (MIMO) Cellular/LTE antennas 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-Double Cell/LTE~GPS 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.

GLONASS and US GPS Together: Antenna Plus now provides antennas for both GPS systems. When used together the two satellite GPS systems have 55 combined satellites providing more ubiquitous GPS coverage in rural areas as well as dense downtown urban areas with skyscrapers. The level of accuracy is also superior compared to just the US GPS system.

Bigger Wireless Footprint: By using the AP-Double Cell/LTE~GPS Antenna, you can be farther away from a cell site 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.

Connects to mobile data wireless routers with TWO Cellular/LTE ports and a GPS port.

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**Electrical Specifications**

**Frequencies:**
Cellular/LTE = 824-896 MHz; 1850-1995 MHz; 698-798 MHz; 1710-1770 MHz; 2110-2170 MHz; 2570-2620 MHz
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:**
The AP-Double Cell/LTE~GPS Antenna can come with any RF connectors you need to connect to your modem.

**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.
**Aerial 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

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**Dimensions**

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**Built-in Metal Ground Plane**

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**Mounting Styles**

- Threaded Bolt
- Magnetic
- Permanent Adhesive
The AP-MultiMax MIMO Antenna is the all-in-one, low profile housing that provides 2 high gain Multiple-In, Multiple-Out (MIMO) Cellular/LTE antennas, 1 high gain WiFi antenna (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-MultiMax 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 Single-WiFi antenna to off-load large amounts of data or to push software updates to your computer from your WiFi hotspot.

**GLONASS and US GPS Together:** Antenna Plus now provides antennas for both GPS systems. When used together the two satellite GPS systems have 55 combined satellites providing more ubiquitous GPS coverage in rural areas as well as dense downtown urban areas with skyscrapers. The level of accuracy is also superior compared to just the US GPS system.

**Bigger Wireless Footprint:** By using AP-MultiMax 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.

**Connects to mobile data wireless routers with TWO Cellular/LTE ports, ONE WiFi port and a GPS port.**

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**Electrical Specifications**

**Frequencies:**
- Cellular/LTE = 824-896 MHz; 1850-1995 MHz;
- 698-798 MHz; 1710-1770 MHz;
- 2110-2170 MHz; 2570-2620 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:**
- The AP-MultiMax MIMO Antenna can come with any RF connectors you need to connect to your modem.

**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.
- Aerial 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**

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**Built-in Metal Ground Plane**

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- Magnetic
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The AP-Double Cell/LTE~Double WiFi~GPS Antenna is the all-in-one, low profile housing that provides 2 high gain Multiple-In, Multiple-Out (MIMO) 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:

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AP-DOUBLE CELL/LTE~DOUBLE WIFI~GPS

Electrical Specifications

Frequencies:
Cellular/LTE = 824-896 MHz; 1850-1995 MHz;
698-798 MHz; 1710-1770 MHz;
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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:
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Cable Length:
15 feet (4.5 m) (Adhesive and Bolt Mount)
10 feet (3 m) (Magnet Mount)
Optional cable length to 35 feet

Connectors:
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Environmental Specifications

Temperature: - 40 °C to 85 °C (-40 °F to +185 °F)
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Humidity: (non-condensing) - 5% to 95%
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Military Spec MIL-STD 810 conformance to thermal, mechanical shock, and humidity.

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Polarization ......... R.H.C.P.
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Noise Figure ........ 2.0 max.
Aerial Ratio ........ 3 dB max.
Bandwidth ........... 2 MHz min.
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Threaded Bolt
Permanent Adhesive

Magnetic