


# FM-PUCK

 Fluidmesh is  
now part of Cisco.

## High Performance Multi-Band Mobile MIMO Antenna with GPS and 4G LTE



### FEATURES

- Multi-band coverage of 2.3-2.8 GHz and 4.9-5.9 GHz broadband wireless frequencies.
- High performance GPS assembly for superior out-of-band rejection; provides optimal performance in multiband installations
- IP67 compliant design with custom overmolded gasket provides maximum protection against water or dust ingress under severe environmental conditions when properly installed on a vehicle's surface.
- High performance, low loss cable and high quality connectors for maximum RF system efficiency.
- UV resistant black or white housing options complement most vehicular aesthetic requirements.

### RF/ELECTRICAL SPECIFICATIONS

Frequency Ranges	4.9-5.9 GHz
VSWR (all frequencies)	< 1.5:1
In-Band Isolation Between Elements	23 dBi (2.3 - 2.8 GHz version), 26 dBi (4.9-5.9 GHz version)
Nominal Gain	3-4 dBi (2.3 - 2.8 GHz version), 0.5 dBi (4.9-5.9 GHz version)
Beamwidth Elevation	30° (2.3-2.8GHz version), 25° (3.9-5.9GHz version)
Beamwidth Azimuth	360°

### MECHANICAL SPECIFICATIONS

Dimensions	5.2 OD x 2.1 inches (132 OD x 53 mm)
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### ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-40° to +80° C, -40°F to 160°F
Storage Temperature	-50° to +85° C, -49°F to 185°F
Ingress Protection	IP67
Humidity	95%

### GENERAL SPECIFICATIONS

Maximum Power	25 watts
Polarization	Vertical, linear
Nominal Impedance	50 Ohm
Housing Color	White, Black
Housing Material	PC/ABS, UV rated for outdoor use
Mount Method	3/4-inch hole (19 mm) slotted stud mount with 3/4-16 UNF slotted hex-nut
Coax	Three (3) 12-foot Pro-Flex Plus 195 stranded cable leads
Connectors	Reverse Polarity, Reverse Threaded SMA Male

### GPS ANTENNA SPECS

Frequency Band	1575.42 MHz (GPS L1)
Amplifier Gain	26 dB ± 3 dBic
Nominal Impedance	50 ohms
Output VSWR	1.5:1 typical
DC Current	20 mA nominal; < 30 mA @ - 40°C to + 85°C
DC Voltage	3-12 V
Noise Figure	1.8 dB typical
Filtering	> 40 dB rejection @ ± 50 MHz from center frequency

### ELECTRICAL SPECIFICATIONS - RF ANTENNAS

Elements	Operating Frequencies	Polarization	Nominal Impedance	Gain* (typical)	Maximum power	VSWR**
4 G LTE Elements (2 each)	698-960 MHz 1710-2170 MHz 2300-2700 MHz	Vertical, linear	50 ohms	2.5 dBi	50 Watts	< 2.0:1