

M2M Low Profile Double Cell IP67 Antenna with GNSS

M2M Low Profile is a fully rugged outdoor antenna designed specifically for M2M applications. This antenna provides best in class performance with two high gain cellular/LTE, and GNSS antennas inside a single robust and compact housing.

- 2 x Wideband Cellular/LTE Elements (MIMO)
- 1 x GNSS Antenna
- Leading LTE performance while in coexistence with multiple other embedded antenna technologies
- Lower profile and smaller footprint than competing solutions
- Ground plane independent
- · Available in black or white
- US Patent 10109918

Descriptions/Applications

The M2M Low Profile antenna builds on the best in class RF performance. leading design, features, and extended product life tradition of this highly successful product line. Ideal for kiosks, digital signage, wireless ATMs, vending machines, NEMA enclosures, industrial metering and other wireless machine to machine applications. This antenna has been designed to mount externally to an M2M or IoT enabled asset, and requires no servicing through its life time.

M2M SOLUTIONS





Optimal MIMO Performance for LTE





Full Outdoor Installation Ready



Customizable Cables and Connectors



Low loss cable accessories



Fast custom turnaround time





Adhesive Mount

Bolt Mount

Standard Configurations

AP-M2M-LP-CCG-Q-BL-6	MIMO Cell/LTE x 2 & GNSS, Threaded bolt mount, SMA, Black, 6ft coax		
AP-M2M-LP-CCG-A-BL-6	MIMO Cell/LTE x 2 & GNSS, Adhesive mount, SMA, Black, 6ft coax		



Electrical Data				
Frequency Range	Antennas 1 & 2	698-960/1700-2700 MHz		
	Antenna 3	1550~1610 MHz		
Operational Bands	Antennas 1 & 2	LTE/Cellular		
	Antenna 3	GPS L1/GALILEO E1/GLONASS G1/BeiDou B1/QZSS L1		
Peak Gain: Isotropic	Antennas 1 & 2	698-960 MHz	2.0 dBi	
		1710-2700 MHz	4.0 dBi	
	Antenna 3	30.5 dBi		
Isolation	Antennas 1 & 2	> 10 dB		
Correlation Co-efficient	Antennas 1 & 2	< 0.1		

Environmental Data	
Hazardous Substances	RoHS Compliant
Temperature	-40°C to 65°C (-40°F to + 149°F) Operating and Storage conformance to IEC 60068
Humidity (Non-Condensing)	5% to 96% Operating and Storage conformance to IEC 60068
Water Ingress	IP67
Military Spec	MIL-STD 810 conformance to vibration

Mounting Data		
Dimensions		1.13" (28.6mm)
	Width	2.66" (67.6mm)
		6.88" (174.8mm)
Color		or White (WH)

Cable Data- Cell/LTE		Cable Data- GNSS	
Туре	CFD195 Low Loss	Туре	RG-174U
Diameter	0.195" (4.953 mm)	Diameter	0.100" (2.54 mm)
Length	1 feet (0.3 m)	Length	1 feet (0.3 m)
Termination	SMA Male	Termination	SMA Male

GNSS Data - Ceramic Patch Antenna Specification		GNSS Data - LNA Specification	
Bandwidth	1561 – 1602 MHz	Noise Figure	1.2 dB
Gain@Zenith	2.5 dBi	Gain	28 dBi
Polarization	R.H.C.P.	Voltage	3.3V~5.6V
Axial Ratio	3.0 dB Typ.	Current	9.6±1mA@3.3V