



M611 M610 M609 Enterprise Series M2M IoT Antenna

Multi-MIMO / Multi-Carrier Cellular 4G LTE CBRS 5G NR

Multi-MIMO WiFi 2.4~7GHz / GPS GNSS

Built-In Ground Plane / Bolt Mount

Optional: Rugged M-Lander Adjustable Magnetic Mount Adapter

M611 M610 M609 Enterprise Series Mobility M2M IoT Antenna Specifications

Multi-Carrier Multi-MIMO Cellular 4G LTE CBRS 5G NR / GPS GNSS / Multi-MIMO Multi-Band WiFi 2.4~7GHz

(M611: 11 Lead Antennas / M610: 10 Lead Antennas / M609: 9 Lead Antennas)

Multi-MIMO Multi-Carrier / Multi-Technology 4G LTE CBRS 5G NR Compliant	Verizon 4G 5G (DSS) Bands: <i>B2 B4 B5 B13 B46 B48 B66</i> T-Mobile 4G 5G Bands: <i>B2 B4 B5 B12 B25 B26 B41 B66 B71 n25 n41 n66 n71</i> AT&T 4G 5G Bands: <i>B2 B4 B5 B12 B14 B17 B29 B30 B66 n5</i> CBRS LTE Band: <i>B48</i> / 5G NR Bands: <i>n77 n78 n79</i>
4G LTE CBRS 5G NR Frequency Range WiFi Frequency Range	617-960MHz / 1710-7000MHz 2.4-2.5GHz / 4.9-7GHz (Concurrent)
4G 5G CBRS Peak Gain: <i>Isotropic (dBi)</i> WiFi Peak Gain: <i>Isotropic (dBi)</i>	(4dBi) 617-960MHz / (8dBi) 1710-3800MHz / (9dBi) 4900-7000MHz / (6.5dBi) CBRS LTE 3.5GHz (8dBi) 2.4-2.5GHz / (8dBi) 4.9-7GHz
Typical Efficiency 4G 5G Elements	617-960MHz >65% 1710-3800MHz >75% 4900-7000MHz >85%
Typical Efficiency WiFi Elements	>70%
Isolation 4G 5G Elements Isolation WiFi Elements	>10dB >12dB
Correlation Co-efficient 4G 5G Elements Correlation Co-efficient WiFi Elements	<0.2 <0.1
Nominal Impedance	50Ω
GPS GNSS Specifications	GPS Glonass Galileo QZSS Compass <i>In-Band Frequency Interference Filter for LTE B13 B14</i>
Frequency Range	1562-1612MHz
LNA Gain	29dB ± 2dB
VSWR	<2.0:1
Out of Band Rejection	>45dB (@ > +/- 100MHz f)
Typical Noise Figure	<-2dB
Notch Filter Rejection @787MHz	24dB
Operating Voltage	3-5V DC
Typical Current	15mA
Antenna Housing	High Impact UV Stable ABS Polymer (Black or White) Housing Height: <i>120mm (4.7")</i> / Base Diameter: <i>140mm (5.5")</i>
Connector Types	All Standard RF Connectors Available
15ft Coax Cables (All Cables Full Length)	Cellular 4G 5G CFD200 Coax Cables / Multi-Band WiFi CFD200 Coax Cables / GPS GNSS CFD100 Coax Cable * Custom cable lengths & connector end options are available
Mounting Bolt	Steel Mounting Bolt: <i>Length 24mm (0.95")</i> / <i>Diameter 25mm (1")</i> w/Anti Rotation Perma Seal Baseplate Pad
Operating Temp	-40° / +80°C (-40° / +176°F)
Ingress Protection	IP69K





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Antenna Configuration Options

(M611: 11-Lead Antenna / M610: 10-Lead Antenna / M609: 9-Lead Antennas)

<p>M611 11-Element Configurations</p>	<p>M611-BB-6CG4W: Multi-MIMO 6 x Cellular 4G CBRS 5G NR / GPS GNSS / Multi-MIMO 4 x Multi-Band WiFi – (Black) M611-BW-6CG4W: Multi-MIMO 6 x Cellular 4G CBRS 5G NR / GPS GNSS / Multi-MIMO 4 x Multi-Band WiFi – (White) M611-BB-4CG6W: Multi-MIMO 4 x Cellular 4G CBRS 5G NR / GPS GNSS / Multi-MIMO 6 x Multi-Band WiFi – (Black) M611-BW-4CG6W: Multi-MIMO 4 x Cellular 4G CBRS 5G NR / GPS GNSS / Multi-MIMO 6 x Multi-Band WiFi – (White) M611-BB-8CG2W: Multi-MIMO 8 x Cellular 4G CBRS 5G NR / GPS GNSS / MIMO 2 x Multi-Band WiFi – (Black) M611-BW-8CG2W: Multi-MIMO 8 x Cellular 4G CBRS 5G NR / GPS GNSS / MIMO 2 x Multi-Band WiFi – (White) M611-BB-2CG8W: MIMO 2 x Cellular 4G CBRS 5G NR / GPS GNSS / Multi-MIMO 8 x Multi-Band WiFi – (Black) M611-BW-2CG8W: MIMO 2 x Cellular 4G CBRS 5G NR / GPS GNSS / Multi-MIMO 8 x Multi-Band WiFi – (White) M611-BB-10CG: Multi-MIMO 10 x Cellular 4G CBRS 5G NR / GPS GNSS – (Black) M611-BW-10CG: Multi-MIMO 10 x Cellular 4G CBRS 5G NR / GPS GNSS – (White) M611-BB-10WG: Multi-MIMO 10 x Multi-Band WiFi / GPS GNSS – (Black) M611-BW-10WG: Multi-MIMO 10 x Multi-Band WiFi / GPS GNSS – (White)</p>
<p>(Sierra Wireless) >> M610 10-Element Configurations</p>	<p>M610-BB-6CG3W: Multi-MIMO 6 x Cellular 4G CBRS 5G NR / GPS GNSS / MIMO 3 x Multi-Band WiFi – (Black) M610-BW-6CG3W: Multi-MIMO 6 x Cellular 4G CBRS 5G NR / GPS GNSS / MIMO 3 x Multi-Band WiFi – (White) M610-BB-6C4W: Multi-MIMO 6 x Cellular 4G CBRS 5G NR / Multi-MIMO 4 x Multi-Band WiFi – (Black) M610-BW-6C4W: Multi-MIMO 6 x Cellular 4G CBRS 5G NR / Multi-MIMO 4 x Multi-Band WiFi – (White) M610-BB-4C6W: Multi-MIMO 4 x Cellular 4G CBRS 5G NR / Multi-MIMO 6 x Multi-Band WiFi – (Black) M610-BW-4C6W: Multi-MIMO 4 x Cellular 4G CBRS 5G NR / Multi-MIMO 6 x Multi-Band WiFi – (White) M610-BB-8C2W: Multi-MIMO 8 x Cellular 4G CBRS 5G NR / MIMO 2 x WiFi Multi-Band – (Black) M610-BW-8C2W: Multi-MIMO 8 x Cellular 4G CBRS 5G NR / MIMO 2 x WiFi Multi-Band – (White) M610-BB-2C8W: MIMO 2 x Cellular 4G CBRS 5G NR / Multi-MIMO 8 x Multi-Band WiFi – (Black) M610-BW-2C8W: MIMO 2 x Cellular 4G CBRS 5G NR / Multi-MIMO 8 x Multi-Band WiFi – (White) M610-BB-10C: Multi-MIMO 10 x Cellular 4G CBRS 5G NR – (Black) M610-BW-10C: Multi-MIMO 10 x Cellular 4G CBRS 5G NR – (White) M610-BB-10W: Multi-MIMO 10 x Multi-Band WiFi – (Black) M610-BW-10W: Multi-MIMO 10 x Multi-Band WiFi – (White)</p>
<p>M609 9-Element Configuration (Sierra Wireless)</p>	<p>M609-BB-6C3W: Multi-MIMO 6 x Cellular 4G CBRS 5G NR / MIMO 3 x Multi-Band WiFi – (Black) M609-BW-6C3W: Multi-MIMO 6 x Cellular 4G CBRS 5G NR / MIMO 3 x Multi-Band WiFi – (White) M609-BB-9W: Multi-MIMO 9 x Multi-Band WiFi – (Black) M609-BW-9W: Multi-MIMO 9 x Multi-Band WiFi – (White)</p>





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