

M12000 Omni Series M2M IoT Antenna Specifications  
 Cellular 4G LTE CBRS 5G NR / WiFi HaLow (902~928Mhz)  
 L-Bracket Mount / Magnetic Mount Options

4G LTE CBRS 5G NR Frequency Range WiFi HaLow Frequency Range	617-960MHz / 1710-6000MHz 902~928Mhz
4G CBRS 5G NR Avg. Peak Gain: <i>Isotropic</i> WiFi HaLow Avg. Peak Gain: <i>Isotropic</i>	(6dBi) 617-960MHz / (8dBi) 1710-3800MHz / (8dBi) 4900-6000MHz / (6dBi) CBRS 3.5GHz (6dBi) 902~928Mhz
Typical Efficiency 4G 5G	617-960MHz >50% 1710-3800MHz >50% 4900-6000MHz >55%
Typical Efficiency WiFi HaLow	>70%
Isolation 4G 5G Isolation WiFi / Bluetooth	>10dB >12dB
Correlation Co-efficient 4G 5G Correlation Co-efficient WiFi / BT	<0.2 <0.1
Horizontal Half Power Beamwidth	360° / 360°
Vertical Half Power Beamwidth	40° / 20°
VSWR	≤2.0 / ≤2.0
Nominal Impedance	50Ω
Polarization Radiation	Vertical Omni Directional
Max. Power	50W

Mechanical / Environmental Specifications

Mast	Fiberglass Height: 24" / 612mm - Mast Dia: 0.8" / 20mm - Base Dia: 1" / 24mm
Antenna Connector Type	N Female
Mount Options	L-Bracket Mount w/ U-Bolt Sets (Coax Cables Sold Separately) 5.75" Rare Earth Magnetic Mount Base w/15ft AGA200 Coax Cable w/ Connector End
U-Bolt Mounting Diameter (L-Bracket Mount)	1.5"~2" / 40mm~50mm
Ingress Protection	IP67
Wind Velocity	120 MPH
Operating Temp (°F)	-40° / +158° (°F)
Weight	1lbs / 0.45kg - Including L-Bracket Mounting Hardware 2.2lbs / 1kg - Including 5.75" Magnetic Mount w/15ft Coax Cable



Supported Cellular Service Provider Networks	
Verizon	Verizon 4G LTE 5G NR Bands 4G LTE: B2 B4 B5 B13 B46 B48 B66 (CBRS B48) 5G NR: N2 N5 N66 N77 Carriers (MVNOs) using Verizon Network: <i>Reach Mobile, Red Pocket Mobile, Spectrum Mobile, Ting Total, Tracfone, Twigby, US Mobile, Visible, Xfinity Mobile</i>
T-Mobile	Mobile 4G LTE 5G NR Bands 4G LTE: B2 B4 B5 B12 B25 B26 B41 B48 B66 B71 (CBRS B48) 5G NR: N25 N41 N66 N71 Carriers (MVNOs) using T-Mobile Network <i>Mint Mobile, TextNow, Lyca Mobile, Metro, Red Pocket Mobile Republic Wireless, Simple Mobile, Ting, Tracfone, US Mobile</i>
AT&T	AT&T 4G LTE 5G NR Bands 4G LTE: B2 B4 B5 B12 B14 B17 B29 B30 B48 B66 (CBRS B48) GSM: 1900MHz 5G NR: N2 N5 N66 N77 Carriers (MVNOs) using AT&T Network <i>Cricket Wireless, Net 10 Wireless, Red Pocket Mobile, Straight Talk</i>
Supported Cellular Bands	
5G NR Bands	n1 n2 n3 n5 n7 n8 n12 n13 n14 n18 n20 n25 n26 n28 n29 n30 n38 n40 n41 n48-CBRS n66 n71 n75 n76 n77 n78 n79 C-band
4G LTE Bands	B1 B2 B3 B4 B5 B7 B8 B12 B13 B14-FirstNet B17 B18 B19 B20 B25 B26 B28 B29 B30 B32 B38 B39 B40 B41 B42 B43 B46-LAA B48-CBRS B66 B71
3G Bands	B1 B2 B3 B4 B5 B6 B8 B9 B19
Supported WiFi IEEE Standards	
* WiFi HaLow	WiFi HaLow (802.11ah) * Contact Us For M1200 WiFi HaLow Configuration Options





M1200 Omni Series Antenna  
 Dimensions / L-Bracket Mount / Magnetic Mount

M1200-NF  
 L-Bracket Mount Option

M1200-M15  
 Magnetic Mount Option

25.4mm / 1"



612mm  
 24"

- M1200-NF L-Bracket Mount Option  
*Includes*
- M1200 Mast w/ N Female RF Base
  - L-Bracket Mount
  - 2 x U-Bolt Sets

- M1200-M15 Magnetic Mount Option  
*Includes*
- M1200 Mast w/ N Female RF Base
  - 5.75" Mag Mount Base w/ N Male RF
  - 15ft Coax Cable w/ Connector End



N Female Base  
 RF Connector



N Male  
 RF Connector

15ft Coax Cable  
 w/ Connector End

5.75" Magnetic Mount  
 Base

N Female Base  
 RF Connector

L-Bracket Mount  
 w/ U-Bolt Sets

N Female Base  
 RF Connector

M1200 Omni Series Antenna – L-Bracket / Magnetic Mount Options  
 "Built To Spec" Custom Cable Options are Available. Contact us for details.





M1200 Omni Series Cellular 4G 5G NR Antenna  
 Omni Directional Cellular 4G LTE CBRS 5G NR / WiFi HaLow  
 L-Bracket & Magnetic Mount Options / Outside Use  
 \* Contact Us For M1200 WiFi HaLow Configuration Options

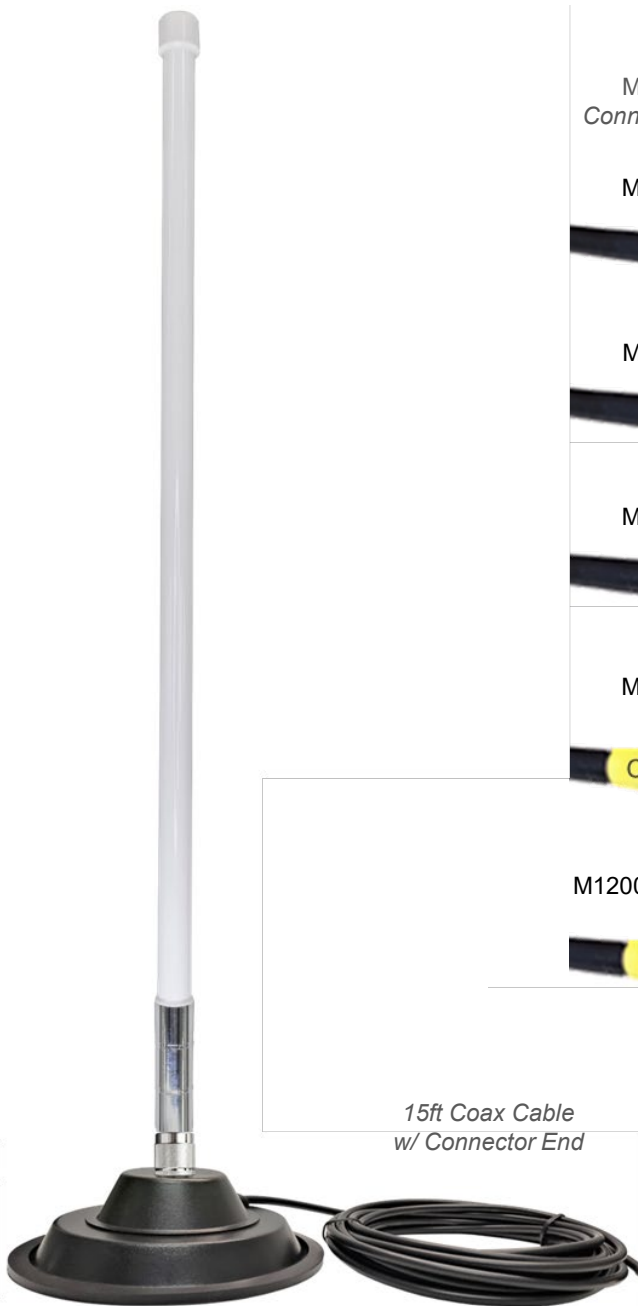
M1200 Omni Series Antenna Configuration Options – *Magnetic Mount w/ 15ft Coax Cable*

Configuration Options  
 (Magnetic Mount)

M1200-M15-SM: Cellular 4G 5G Magnetic Mount Antenna w/ 15ft Coax Cable – SMA Male  
 M1200-M15-FF: Cellular 4G 5G Magnetic Mount Antenna w/ 15ft Coax Cable – FME Female  
 M1200-M15-TM: Cellular 4G 5G Magnetic Mount Antenna w/ 15ft Coax Cable – TNC Male  
 M1200-M15-NF: Cellular 4G 5G Magnetic Mount Antenna w/ 15ft Coax Cable – N Female  
 M1200-M15-FAKRA: Cellular 4G 5G Magnetic Mount Antenna w/ 15ft Coax Cable – FAKRA

M1200-NF  
 L-Bracket Mount

M1200-M15  
 Magnetic Mount



Magnetic Mount  
 Connector End Options

M1200-M15-SM



M1200-M15-FF



M1200-M15-TM



M1200-M15-NF



M1200-M15-FAKRA



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