

**AG12B AG12M 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 AG12 WiFi HaLow Configuration Options

**AG12B AG12M Omni Series Antenna**  
 Dimensions / L-Bracket Mount / Magnetic Mount

AG12B-NF  
 L-Bracket Mount Option

AG12M-15  
 Magnetic Mount Option

25.4mm / 1"



612mm  
 24"

- AG12B L-Bracket Mount Option**  
*Includes*
- AG12 Mast w/ N Female RF Base
  - L-Bracket Mount
  - 2 x U-Bolt Sets

- AG12M Magnetic Mount Option**  
*Includes*
- AG12 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



5.75" Magnetic Mount  
 Base

15ft Coax Cable  
 w/ Connector End

N Female Base  
 RF Connector

L-Bracket Mount  
 w/ U-Bolt Sets

N Female Base  
 RF Connector

AG12M Omni Series Antenna Configuration Options – *Magnetic Mount w/ 15ft Coax Cable*

Configuration Options  
 (Magnetic Mount)

AG12M-15-SM: Cellular 4G 5G Magnetic Mount Antenna w/ 15ft Coax Cable – SMA Male  
 AG12M-15-FF: Cellular 4G 5G Magnetic Mount Antenna w/ 15ft Coax Cable – FME Female  
 AG12M-15-TM: Cellular 4G 5G Magnetic Mount Antenna w/ 15ft Coax Cable – TNC Male  
 AG12M-15-NF: Cellular 4G 5G Magnetic Mount Antenna w/ 15ft Coax Cable – N Female  
 AG12M-15-FAKRA: Cellular 4G 5G Magnetic Mount Antenna w/ 15ft Coax Cable – FAKRA

AG12B-NF  
 L-Bracket Mount



Coax Cables  
 Sold Separately

AG12M  
 Magnetic Mount



15ft Coax Cable  
 w/ Connector End

Magnetic Mount  
 Connector End Options

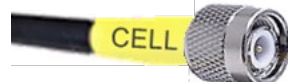
AG12M-15-SM



AG12M-15-FF



AG12M-15-TM



AG12M-15-NF



AG12M-15-FAKRA

