

AG20M 3-Lead Omni MIMO Cellular 4G LTE 5G NR / MIMO WiFi 6 / GPS GNSS Specifications – Magnetic Mount
Multi-Carrier MIMO Cellular 4G LTE CBRS 5G NR / GPS GNSS / MIMO Multi Band WiFi 6 (2.4GHz ~6GHz) / Bluetooth (2.4GHz)

4G LTE CBRS 5G NR Frequency Range Bluetooth (2.4GHz) WiFi 6 Frequency Range	617-960MHz / 1710-6000MHz 2.4-2.5GHz / 4.9-6GHz (Concurrent)
4G CBRS 5G NR Avg. Peak Gain: <i>Isotropic</i> WiFi / Bluetooth Avg. Peak Gain: <i>Isotropic</i>	(3.5dBi) 617-960MHz / (6dBi) 1710-3800MHz / (7dBi) 4900-6000MHz / (5dBi) CBRS 3.5GHz (9dBi) 2.4~6GHz
Typical Efficiency 4G 5G Elements	617-960MHz >70% 1710-3800MHz >70% 4900-6000MHz >85%
Typical Efficiency WiFi Elements	>70%
Isolation 4G 5G Elements Isolation WiFi / Bluetooth Elements	>10dB >12dB
Correlation Co-efficient 4G 5G Elements Correlation Co-efficient WiFi / BT Elements	<0.2 <0.1
Horizontal Half Power Beamwidth	360° / 360°
Vertical Half Power Beamwidth	70° / 35°
VSWR	≤2.0 / ≤2.0
Nominal Impedance	50Ω
Polarization	MIMO 2 x Vertical Omni Directional
Max. Power	50W
GPS GNSS Specifications	GPS Glonass Galileo QZSS BeiDou 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



AG20M 3-Lead Cellular 4G LTE 5G NR / WiFi 6 / GPS GNSS Antenna
MIMO Cellular 4G LTE 5G NR / MIMO WiFi 6 / GPS GNSS
Omni-Directional / Magnetic Mount / Outside or Inside Use
* Contact Us For AG20M HaLow WiFi Configuration Options

Mechanical / Environmental Specifications	
Radome	High Impact Polycarbonate Height: 9.3" / 237mm - Diameter: 2.4" / 60mm
16ft Coax Cables 1ft Coax Cables	Cellular 4G 5G 16ft AGA200 Coax / WiFi 16ft AGA200 Coax / GPS 16ft AGA100 Coax Cellular 4G 5G 1ft AGA200 Coax / WiFi 1ft AGA200 Coax / GPS 1ft AGA100 Coax (Custom Length Coax Cable Options are Available. Contact us for details)
Connector Types	All Standard RF Connectors Available (Including FAKRA Connector Ends)
Mount Type	Magnetic Mount 3 x Rare Earth Magnets
Ingress Protection	IP69K
Wind Velocity	120 MPH
Operating Temp	-40° / +80°C (-40° / +176°F)
Net Weight	1.5bs / 0.7kg Includes Magnetic Mount
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: Reach Mobile, Red Pocket Mobile, Spectrum Mobile, Ting Total, Tracfone, Twigby, US Mobile, Visible, Xfinity Mobile
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 Mint Mobile, TextNow, Lyca Mobile, Metro, Red Pocket Mobile Republic Wireless, Simple Mobile, Ting, Tracfone, US Mobile
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 Cricket Wireless, Net 10 Wireless, Red Pocket Mobile, Straight Talk
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 1-6	WiFi 1 WiF 2 (802.11ba) WiFi 3 (802.11g) WiFi 4 (802.11n) WiFi 5 (802.11ac) WiiFi 6 6E (802.11ax)
* WiFi HaLow	WiFi HaLow (802.11ah) * Contact Us For M120M HaLow WiFi Configuration Options

AG20M Omni MIMO Series Antenna
Dimensions / Magnetic Mount

60mm
2.4"

237mm
9.3"



Magnetic Mount



3 x Commercial Grade
Rare Earth Magnets

Includes
3 x Coax Cables

AG20M 3-Lead Omni MIMO Cellular 4G LTE 5G NR / MIMO WiFi 6 / GPS GNSS Antenna – Magnetic Mount
Dimensions / Configuration Options w/16ft Coax Cables (SMA)

Configuration Options
(SMA)

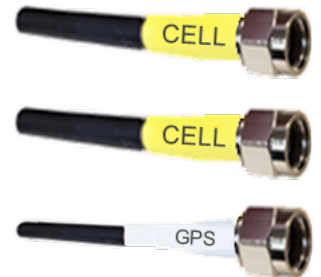
AG20M-16-2CG: MIMO 2 x Cellular 4G 5G / GPS GNSS Antenna w/3 x 16ft Coax Cables – 3 x SMA
AG20M-16-2WG: MIMO 2 x WiFi 6 / GPS GNSS Antenna w/3 x 16ft Coax Cables – 2 x RPSMA / SMA
AG20M-16-CWG: Cellular 4G 5G / WiFi 6 / GPS GNSS Antenna w/3 x 16ft Coax Cables – SMA / RPSMA / SMA
* Contact Us For AG20M HaLow WiFi Configuration Options

AG20M-16-SMA



Includes
3 x 16ft Coax Cables
SMA

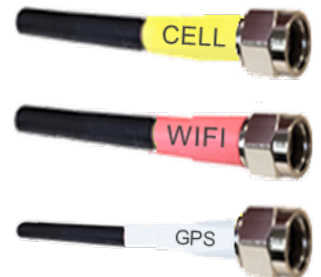
AG20M-16-2CG



AG20M-16-2WG



AG20M-16-CWG



Magnetic Mount

AG20MF 3-Lead Omni MIMO Cellular 4G LTE 5G NR / MIMO WiFi 6 / GPS GNSS Antenna – Magnetic Mount
Dimensions / Configuration Options w/16ft Coax Cables (FAKRA)

Configuration Options
(FAKRA)

AG20MF-16-2CG: MIMO 2 x Cellular 4G 5G / GPS GNSS Antenna w/3 x 16ft Coax Cables – FAKRA
AG20MF-16-2WG: MIMO 2 x WiFi 6 / GPS GNSS Antenna w/3 x 16ft Coax Cables – FAKRA
AG20MF-16-CWG: Cellular 4G 5G / WiFi 6 / GPS GNSS Antenna w/3 x 16ft Coax Cables – FAKRA
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AG20MF-16-FAKRA



Includes
3 x 16ft Coax Cables
FAKRA

AG20MF-16-2CG



AG20MF-16-2WG



AG20MF-16-CWG



Magnetic Mount

AG20M 3-Lead Omni MIMO Cellular 4G LTE 5G NR / MIMO WiFi 6 / GPS GNSS Antenna – Magnetic Mount
Dimensions / Configuration Options w/1ft Coax Cables (NF / SMA)

Configuration Options
(NF / SMA)

AG20M-1-2CG: MIMO 2 x Cellular 4G 5G / GPS GNSS Antenna w/ 3 x 1ft Coax Cables – 2 x NF / SMA
AG20M-1-2WG: MIMO 2 x WiFi 6 / GPS GNSS Antenna w/ 3 x 1ft Coax Cables – 2 x NF / SMA
AG20M-1-CWG: Cellular 4G 5G / WiFi 6 / GPS GNSS Antenna w/ 3 x 1ft Coax Cables – 2 x NF / SMA
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AG20M-16-SMA

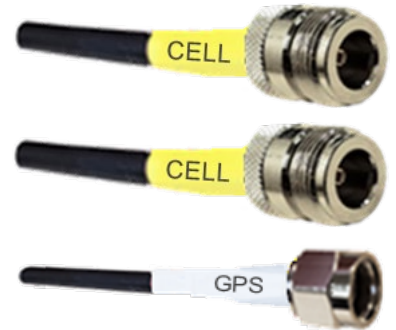


Includes
3 x 1ft Coax Cables
2 x NF / 1 x SMA
(Extension Cables Sold Separately)



Magnetic Mount

AG20M-1-2CG



AG20M-1-2WG



AG20M-1-CWG

