

AG50 Enterprise Series Mobility M2M IoT Antenna Specifications	
Multi-Carrier MIMO Cellular 4G LTE CBRS 5G NR / GPS GNSS / MIMO Multi Band WiFi 6 / WiFi HaLow / 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) 2.4-2.5GHz / (9dBi) 4.9-6GHz
Typical Efficiency 4G 5G Elements	617-960MHz >70% 1710-3800MHz >70% 4900-6000MHz >85%
Typical Efficiency WiFi / Bluetooth 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
Nominal Impedance	50Ω
GPS GNSS Specifications	GPS Glonass Galileo QZSS BeiDou Compass In-Band Frequency Interference Filter for LTE B13 B14
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
Mechanical / Environmental Specifications	
Antenna Housing	High Impact UV Stable ABS Polymer (Black or White) Housing Height: 81mm (3.2") / Base Diameter: 106mm (4.2")
Connector Types	All Standard RF Connectors Available (Including SMA / FAKRA Connector Ends)
15ft Coax Cables (All Cables Full Length)	Cellular 4G 5G AGA200 Coax / WiFi Bluetooth AGA200 Coax / GPS GNSS AGA100 Coax Custom cable length & connector end options are available (Including FAKRA Connector Ends)
Mounting Bolt	Stainless Steel Mounting Bolt: Length 20mm (0.8") / Diameter 19mm (0.75") w/Anti Rotation Perma-Seal Baseplate Pad
Operating Temp	-40° / +80°C (-40° / +176°F)
Ingress Protection	IP69K

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 AG50 HaLow WiFi Configuration Options



AG50 Enterprise Series Antenna
Dimensions

Base Diameter 106mm (4.2") / Height: 81mm (3.2")



AG50 Enterprise Series Antenna
Optional: AG-Lander Magnetic Mount | L-Bracket Mount w/ U-Bolt Set
(Sold Separately)

AG50 Enterprise Series Antenna
w/ Optional AG-Lander Mag Mount Adapter
(AG-Lander Sold Separately)



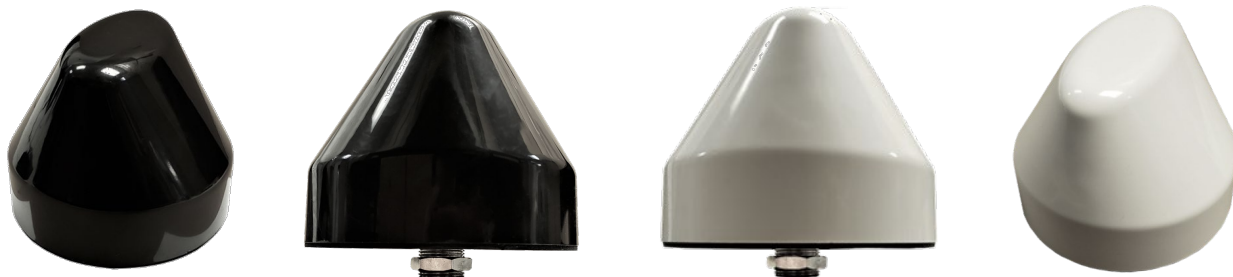
Optional
Rugged AG-Lander Adjustable
Magnetic Mount Adapter
Sold Separately

AG50 Enterprise Series Antenna
w/ Optional L-Bracket Mount Adapter
(L-Bracket Sold Separately)



Optional:
L-Bracket Mount Adapter w/ U-Bolt Set
(Sold Separately)

AG50 Enterprise Series Antenna Housing Color Options
Black | White



AG50 Enterprise Series Antenna Cable Connector End Labels (SMA Connector Ends)
CELL | WIFI | GPS

Cell SMA Male



WiFi RP SMA Male



GPS SMA Male



AG50 Enterprise Series Antenna Configuration Options (SMA Connector Ends)

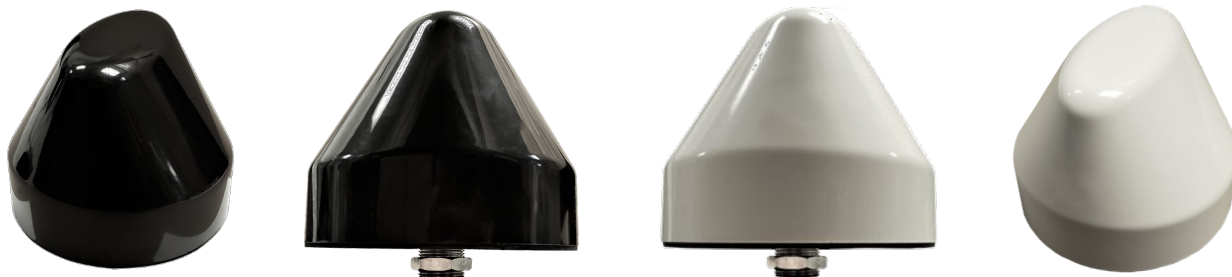
AG53 3-Element
Configurations
(3-Lead)

AG53-BB-2CG: MIMO 2 x Cellular 3G 4G 5G CBRS / GPS GNSS – (Black)
AG53-BW-2CG: MIMO 2 x Cellular 3G 4G 5G CBRS / GPS GNSS – (White)
AG53-BB-2WG: MIMO 2 x Multi-Band WiFi 6 / GPS GNSS – (Black)
AG53-BW-2WG: MIMO 2 x Multi-Band WiFi 6 / GPS GNSS – (White)
AG53-BB-CGW: Cellular 3G 4G 5G CBRS / GPS GNSS / Multi-Band WiFi 6 – (Black)
AG53-BW-CGW: Cellular 3G 4G 5G CBRS / GPS GNSS / Multi-Band WiFi 6 – (White)

AG52 2-Element
Configurations
(2-Lead)

AG52-BB-2C: MIMO 2 x Cellular 3G 4G 5G CBRS – (Black)
AG52-BW-2C: MIMO 2 x Cellular 3G 4G 5G CBRS – (White)
AG52-BB-2W: MIMO 2 x Multi-Band WiFi 6 – (Black)
AG52-BW-2W: MIMO 2 x Multi-Band WiFi 6 – (White)
AG52-BB-CG: Cellular 3G 4G 5G CBRS / GPS GNSS – (Black)
AG52-BW-CG: Cellular 3G 4G 5G CBRS / GPS GNSS – (White)
AG52-BB-WG: Multi-Band WiFi 6 / GPS GNSS – (Black)
AG52-BW-WG: Multi-Band WiFi 6 / GPS GNSS – (White)
AG52-BB-CW: Cellular 3G 4G 5G CBRS / Multi-Band WiFi 6 – (Black)
AG52-BW-CW: Cellular 3G 4G 5G CBRS / Multi-Band WiFi 6 – (White)

AG50F Enterprise Series Antenna Housing Color Options
Black | White



AG50F Enterprise Series Antenna Cable Connector End Labels (FAKRA Connector Ends)
CELL | WIFI | GPS



AG50F Enterprise Series Antenna Configuration Options (FAKRA Connector Ends)

AG53F 3-Element
Configurations
(3-Lead)

AG53F-BB-2CG: MIMO 2 x Cellular 3G 4G 5G CBRS / GPS GNSS – (Black)
AG53F-BW-2CG: MIMO 2 x Cellular 3G 4G 5G CBRS / GPS GNSS – (White)
AG53F-BB-2WG: MIMO 2 x Multi-Band WiFi 6 / GPS GNSS – (Black)
AG53F-BW-2WG: MIMO 2 x Multi-Band WiFi 6 / GPS GNSS – (White)
AG53F-BB-CGW: Cellular 3G 4G 5G CBRS / GPS GNSS / Multi-Band WiFi 6 – (Black)
AG53F-BW-CGW: Cellular 3G 4G 5G CBRS / GPS GNSS / Multi-Band WiFi 6 – (White)

AG52F 2-Element
Configurations
(2-Lead)

AG52F-BB-2C: MIMO 2 x Cellular 3G 4G 5G CBRS – (Black)
AG52F-BW-2C: MIMO 2 x Cellular 3G 4G 5G CBRS – (White)
AG52F-BB-2W: MIMO 2 x Multi-Band WiFi 6 – (Black)
AG52F-BW-2W: MIMO 2 x Multi-Band WiFi 6 – (White)
AG52F-BB-CG: Cellular 3G 4G 5G CBRS / GPS GNSS – (Black)
AG52F-BW-CG: Cellular 3G 4G 5G CBRS / GPS GNSS – (White)
AG52F-BB-WG: Multi-Band WiFi 6 / GPS GNSS – (Black)
AG52F-BW-WG: Multi-Band WiFi 6 / GPS GNSS – (White)
AG52F-BB-CW: Cellular 3G 4G 5G CBRS / Multi-Band WiFi 6 – (Black)
AG52F-BW-CW: Cellular 3G 4G 5G CBRS / Multi-Band WiFi 6 – (White)