



AG45 AG44 AG43 Low-Profile Series M2M IoT Antennas
MIMO Cellular 4G LTE CBRS 5G NR / GPS GNSS
MIMO Multi-Band WiFi 6 / WiFi HaLow / Bluetooth
Built-In Ground Plane / Bolt Mount / Mag Mount / Adhesive Mount

AG45 AG44 AG43 Low-Profile Series Mobility M2M IoT Antenna Specifications

Multi-Carrier Multi MIMO Cellular 4G LTE CBRS 5G NR / GPS GNSS / Multi 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 6 / Bluetooth Avg. Peak Gain: <i>Isotropic</i>	(2dBi) 617-960MHz / (3dBi) 1710-3800MHz / (5.5dBi) 4900-6000MHz / (3dBi) CBRS 3.5GHz (9dBi) 2.4-2.5GHz / (9dBi) 4.9-6GHz
Typical Efficiency 4G 5G Elements	617-960MHz >65% 1710-3800MHz >65% 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) Bolt Mount: Housing Height: 50mm (2.0") / Base Length: 56mm (2.2") / Base Width: 56mm (2.2") Magnetic Mount: Housing Height: 60mm (2.36") / Base Length: 56mm (2.2") / Base Width: 56mm (2.2")
Connector Types	All Standard RF Connectors Available (Including FAKRA Connector Ends)
15ft Coax Cables (All Cables Full Length)	Cellular 4G 5G AGA200 Coax / Multi Band WiFi Bluetooth AGA200 Coax / GPS GNSS AGA100 Coax * Custom cable lengths & connector end options are available (Including FAKRA Connector Ends)
Bolt Mount Magnetic Mount / Adhesive Mount	Stainless Steel Mounting Bolt: Length 20mm (0.80") / Diameter 22mm (0.90") 3 x Commercial Grade Rare Earth Magnets w/Baseplate Pad (Includes 3M Adhesive Mount 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: <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 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) * <i>Contact Us For AG45 Series HaLow WiFi Configuration Options</i>

AG45 AG44 AG43 Low-Profile Series Antenna
Dimensions (Bolt Mount)

Height: 56mm (2.2")
Base: 56mm (2.2") x 56mm (2.2")



Mounting Bolt
20mm (0.80") Length
22mm (0.90") Diameter



AG45 AG44 AG43 Low-Profile Series Antenna
Dimensions (Magnetic / Adhesive Mount)

Height: 60mm (2.36")
Base: 56mm (2.2") x 56mm (2.2")



Magnetic / Adhesive Mount



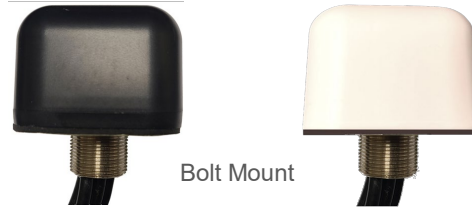
AG45 AG44 AG43 Low-Profile Series Antenna
Optional L-Bracket Mount (Sold Separately)



AG45 MIMO Low-Profile Series Bolt Mount Antenna
w/ Optional L-Bracket Mount
Sold Separately

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

AG45 AG44 AG43 Low-Profile Series Antenna Housing Color Options
Black | White



Bolt Mount

AG45 AG44 AG43 Low-Profile Series Antenna Cable Connector End Labels (SMA Connector Ends)
CELL | WIFI | GPS



AG45 AG44 AG43 Low-Profile Series Antenna Configuration Options
SMA Connector Ends
Bolt Mount

AG45 5-Element
Bolt Mount
Configurations
(5-Lead)

AG45-BB-2CG2W: MIMO 2 x Cellular 3G 4G 5G / GPS GNSS / MIMO 2 x Multi-Band WiFi 6 – (Black)
AG45-BW-2CG2W: MIMO 2 x Cellular 3G 4G 5G / GPS GNSS / MIMO 2 x Multi-Band WiFi 6 – (White)
AG45-BB-4CG: Multi-MIMO 4 x Cellular 3G 4G 5G / GPS GNSS – (Black)
AG45-BW-4CG: Multi-MIMO 4 x Cellular 3G 4G 5G / GPS GNSS – (White)
AG45-BB-4WG: Multi-MIMO 4 x Multi-Band WiFi 6 / GPS GNSS – (Black)
AG45-BW-4WG: Multi-MIMO 4 x Multi-Band WiFi 6 / GPS GNSS – (White)



AG44 4-Element
Bolt Mount
Configurations
(4-Lead)

AG44-BB-2CGW: MIMO x 2 Cellular 3G 4G 5G / GPS GNSS / Multi-Band WiFi 6 – (Black)
AG44-BW-2CGW: MIMO x 2 Cellular 3G 4G 5G / GPS GNSS / Multi-Band WiFi 6 – (White)
AG44-BB-2C2W: MIMO x 2 Cellular 3G 4G 5G / MIMO 2 x Multi-Band WiFi 6 – (Black)
AG44-BW-2C2W: MIMO x 2 Cellular 3G 4G 5G / MIMO 2 x Multi-Band WiFi 6 – (White)
AG44-BB-4C: Multi-MIMO 4 x Cellular 3G 4G 5G – (Black)
AG44-BW-4C: Multi-MIMO 4 x Cellular 3G 4G 5G – (White)
AG44-BB-4W: Multi MIMO 4 x Multi-Band WiFi 6 – (Black)
AG44-BW-4W: Multi MIMO 4 x Multi-Band WiFi 6 – (White)



AG43 3-Element
Bolt Mount
Configurations
(3-Lead)

AG43-BB-2CG: MIMO x 2 Cellular 3G 4G 5G / GPS GNSS – (Black)
AG43-BW-2CG: MIMO x 2 Cellular 3G 4G 5G / GPS GNSS – (White)
AG43-BB-2CW: MIMO x 2 Cellular 3G 4G 5G / Multi-Band WiFi 6 – (Black)
AG43-BW-2CW: MIMO x 2 Cellular 3G 4G 5G / Multi-Band WiFi 6 – (White)
AG43-BB-2WG: MIMO x 2 Multi-Band WiFi 6 / GPS GNSS – (Black)
AG43-BW-2WG: MIMO x 2 Multi-Band WiFi 6 / GPS GNSS – (White)
AG43-BB-3W: MIMO 3 x Multi-Band WiFi 6 – (Black)
AG43-BW-3W: MIMO 3 x Multi-Band WiFi 6 – (White)



AG45 AG44 AG43 Low-Profile Series Antenna Housing Color Options
Black | White



Magnetic / Adhesive Mount

AG45 AG44 AG43 Low-Profile Series Antenna Cable Connector End Labels (SMA Connector Ends)
CELL | WIFI | GPS

Cell SMA Male



WiFi RP SMA Male



GPS SMA Male



AG45 AG44 AG43 Low-Profile Series Antenna Configuration Options
SMA Connector Ends
Magnetic / Adhesive Mount

AG45 5-Element
Magnetic / Adhesive Mount
Configurations
(5-Lead)

AG45-MB-2CG2W: MIMO 2 x Cellular 3G 4G 5G / GPS GNSS / MIMO 2 x Multi-Band WiFi 6 – (Black)
AG45-MW-2CG2W: MIMO 2 x Cellular 3G 4G 5G / GPS GNSS / MIMO 2 x Multi-Band WiFi 6 – (White)
AG45-MB-4CG: Multi-MIMO 4 x Cellular 3G 4G 5G / GPS GNSS – (Black)
AG45-MW-4CG: Multi-MIMO 4 x Cellular 3G 4G 5G / GPS GNSS – (White)
AG45-MB-4WG: Multi-MIMO 4 x Multi-Band WiFi 6 / GPS GNSS – (Black)
AG45-MW-4WG: Multi-MIMO 4 x Multi-Band WiFi 6 / GPS GNSS – (White)



AG44 4-Element
Magnetic / Adhesive Mount
Configurations
(4-Lead)

AG44-MB-2CGW: MIMO x 2 Cellular 3G 4G 5G / GPS GNSS / Multi-Band WiFi 6 – (Black)
AG44-MW-2CGW: MIMO x 2 Cellular 3G 4G 5G / GPS GNSS / Multi-Band WiFi 6 – (White)
AG44-MB-2C2W: MIMO x 2 Cellular 3G 4G 5G / MIMO 2 x Multi-Band WiFi 6 – (Black)
AG44-MW-2C2W: MIMO x 2 Cellular 3G 4G 5G / MIMO 2 x Multi-Band WiFi 6 – (White)
AG44-MB-4C: Multi-MIMO 4 x Cellular 3G 4G 5G – (Black)
AG44-MW-4C: Multi-MIMO 4 x Cellular 3G 4G 5G – (White)
AG44-MB-4W: Multi MIMO 4 x Multi-Band WiFi 6 – (Black)
AG44-MW-4W: Multi MIMO 4 x Multi-Band WiFi 6 – (White)

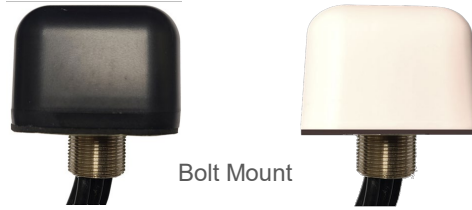


AG43 3-Element
Magnetic / Adhesive Mount
Configurations
(3-Lead)

AG43-MB-2CG: MIMO x 2 Cellular 3G 4G 5G / GPS GNSS – (Black)
AG43-MW-2CG: MIMO x 2 Cellular 3G 4G 5G / GPS GNSS – (White)
AG43-MB-2CW: MIMO x 2 Cellular 3G 4G 5G / Multi-Band WiFi 6 – (Black)
AG43-MW-2CW: MIMO x 2 Cellular 3G 4G 5G / Multi-Band WiFi 6 – (White)
AG43-MB-2WG: MIMO x 2 Multi-Band WiFi 6 / GPS GNSS – (Black)
AG43-MW-2WG: MIMO x 2 Multi-Band WiFi 6 / GPS GNSS – (White)
AG43-MB-3W: MIMO 3 x Multi-Band WiFi 6 – (Black)
AG43-MW-3W: MIMO 3 x Multi-Band WiFi 6 – (White)



AG45F AG44F AG43F Low-Profile Series Antenna Housing Color Options
Black | White



Bolt Mount

AG45F AG44F AG43F Low-Profile Series Antenna Cable Connector End Labels (FAKRA Connector Ends)
CELL | WIFI | GPS



AG45F AG44F AG43F Low-Profile Series Antenna Configuration Options
FAKRA Connector Ends
Bolt Mount

AG45F 5-Element
Bolt Mount
Configurations
(5-Lead)

AG45F-BB-2CG2W: MIMO 2 x Cellular 3G 4G 5G / GPS GNSS / MIMO 2 x Multi-Band WiFi 6 – (Black)
AG45F-BW-2CG2W: MIMO 2 x Cellular 3G 4G 5G / GPS GNSS / MIMO 2 x Multi-Band WiFi 6 – (White)
AG45F-BB-4CG: Multi-MIMO 4 x Cellular 3G 4G 5G / GPS GNSS – (Black)
AG45F-BW-4CG: Multi-MIMO 4 x Cellular 3G 4G 5G / GPS GNSS – (White)
AG45F-BB-4WG: Multi-MIMO 4 x Multi-Band WiFi 6 / GPS GNSS – (Black)
AG45F-BW-4WG: Multi-MIMO 4 x Multi-Band WiFi 6 / GPS GNSS – (White)



AG44F 4-Element
Bolt Mount
Configurations
(4-Lead)

AG44F-BB-2CGW: MIMO x 2 Cellular 3G 4G 5G / GPS GNSS / Multi-Band WiFi 6 – (Black)
AG44F-BW-2CGW: MIMO x 2 Cellular 3G 4G 5G / GPS GNSS / Multi-Band WiFi 6 – (White)
AG44F-BB-2C2W: MIMO x 2 Cellular 3G 4G 5G / MIMO 2 x Multi-Band WiFi 6 – (Black)
AG44F-BW-2C2W: MIMO x 2 Cellular 3G 4G 5G / MIMO 2 x Multi-Band WiFi 6 – (White)
AG44F-BB-4C: Multi-MIMO 4 x Cellular 3G 4G 5G – (Black)
AG44F-BW-4C: Multi-MIMO 4 x Cellular 3G 4G 5G – (White)
AG44F-BB-4W: Multi MIMO 4 x Multi-Band WiFi 6 – (Black)
AG44F-BW-4W: Multi MIMO 4 x Multi-Band WiFi 6 – (White)



AG43F 3-Element
Bolt Mount
Configurations
(3-Lead)

AG43F-BB-2CG: MIMO x 2 Cellular 3G 4G 5G / GPS GNSS – (Black)
AG43F-BW-2CG: MIMO x 2 Cellular 3G 4G 5G / GPS GNSS – (White)
AG43F-BB-2CW: MIMO x 2 Cellular 3G 4G 5G / Multi-Band WiFi 6 – (Black)
AG43F-BW-2CW: MIMO x 2 Cellular 3G 4G 5G / Multi-Band WiFi 6 – (White)
AG43F-BB-2WG: MIMO x 2 Multi-Band WiFi 6 / GPS GNSS – (Black)
AG43F-BW-2WG: MIMO x 2 Multi-Band WiFi 6 / GPS GNSS – (White)
AG43F-BB-3W: MIMO 3 x Multi-Band WiFi 6 – (Black)
AG43F-BW-3W: MIMO 3 x Multi-Band WiFi 6 – (White)



AG45F AG44F AG43F Low-Profile Series Antenna Housing Color Options
Black / White



Magnetic / Adhesive Mount

AG45F AG44F AG43F Low-Profile Series Antenna Cable Connector End Labels (FAKRA Connector Ends)
CELL | WIFI | GPS



AG45F AG44F AG43F Low-Profile Series Antenna Configuration Options
FAKRA Connector Ends
Magnetic / Adhesive Mount

AG45F 5-Element Magnetic / Adhesive Mount Configurations (5-Lead)	AG45F-MB-2CG2W: MIMO 2 x Cellular 3G 4G 5G / GPS GNSS / MIMO 2 x Multi-Band WiFi 6 – (Black) AG45F-MW-2CG2W: MIMO 2 x Cellular 3G 4G 5G / GPS GNSS / MIMO 2 x Multi-Band WiFi 6 – (White) AG45F-MB-4CG: Multi-MIMO 4 x Cellular 3G 4G 5G / GPS GNSS – (Black) AG45F-MW-4CG: Multi-MIMO 4 x Cellular 3G 4G 5G / GPS GNSS – (White) AG45F-MB-4WG: Multi-MIMO 4 x Multi-Band WiFi 6 / GPS GNSS – (Black) AG45F-MW-4WG: Multi-MIMO 4 x Multi-Band WiFi 6 / GPS GNSS – (White) 
AG44F 4-Element Magnetic / Adhesive Mount Configurations (4-Lead)	AG44F-MB-2CGW: MIMO x 2 Cellular 3G 4G 5G / GPS GNSS / Multi-Band WiFi 6 – (Black) AG44F-MW-2CGW: MIMO x 2 Cellular 3G 4G 5G / GPS GNSS / Multi-Band WiFi 6 – (White) AG44F-MB-2C2W: MIMO x 2 Cellular 3G 4G 5G / MIMO 2 x Multi-Band WiFi 6 – (Black) AG44F-MW-2C2W: MIMO x 2 Cellular 3G 4G 5G / MIMO 2 x Multi-Band WiFi 6 – (White) AG44F-MB-4C: Multi-MIMO 4 x Cellular 3G 4G 5G – (Black) AG44F-MW-4C: Multi-MIMO 4 x Cellular 3G 4G 5G – (White) AG44F-MB-4W: Multi MIMO 4 x Multi-Band WiFi 6 – (Black) AG44F-MW-4W: Multi MIMO 4 x Multi-Band WiFi 6 – (White) 
AG43F 3-Element Magnetic / Adhesive Mount Configurations (3-Lead)	AG43F-MB-2CG: MIMO x 2 Cellular 3G 4G 5G / GPS GNSS – (Black) AG43F-MW-2CG: MIMO x 2 Cellular 3G 4G 5G / GPS GNSS – (White) AG43F-MB-2CW: MIMO x 2 Cellular 3G 4G 5G / Multi-Band WiFi 6 – (Black) AG43F-MW-2CW: MIMO x 2 Cellular 3G 4G 5G / Multi-Band WiFi 6 – (White) AG43F-MB-2WG: MIMO x 2 Multi-Band WiFi 6 / GPS GNSS – (Black) AG43F-MW-2WG: MIMO x 2 Multi-Band WiFi 6 / GPS GNSS – (White) AG43F-MB-3W: MIMO 3 x Multi-Band WiFi 6 – (Black) AG43F-MW-3W: MIMO 3 x Multi-Band WiFi 6 – (White) 

AG45Q AG44Q AG43Q Low-Profile Series Antenna Housing Color Options
Black | White



Bolt Mount



Magnetic / Adhesive Mount



AG45Q AG44Q AG43Q Low-Profile Series Antenna Cable Connector End Labels (QMA Connector Ends)
CELL | WIFI | GPS

Cell QMA Male



WiFi RP SMA Male



GPS QMA Male



AG45Q AG44Q AG43Q Low-Profile Series Antenna Configuration Options
QMA Connector Ends
Bolt Mount

AG45Q 5-Element
Bolt Mount
Configurations
(5-Lead)

AG45Q-BB-4CG: Multi-MIMO 4 x Cellular 3G 4G 5G / GPS GNSS – (Black)
AG45Q-BW-4CG: Multi-MIMO 4 x Cellular 3G 4G 5G / GPS GNSS – (White)



AG44Q 4-Element
Bolt Mount
Configurations
(4-Lead)

AG44Q-BB-4C: Multi-MIMO 4 x Cellular 3G 4G 5G – (Black)
AG44Q-BW-4C: Multi-MIMO 4 x Cellular 3G 4G 5G – (White)



AG45Q AG44Q AG43Q Low-Profile Series Antenna Configuration Options
QMA Connector Ends
Magnetic / Adhesive Mount

AG45Q 5-Element
Magnetic / Adhesive Mount
Configurations
(5-Lead)

AG45Q-MB-4CG: Multi-MIMO 4 x Cellular 3G 4G 5G / GPS GNSS – (Black)
AG45Q-MW-4CG: Multi-MIMO 4 x Cellular 3G 4G 5G / GPS GNSS – (White)



AG44Q 4-Element
Magnetic / Adhesive Mount
Configurations
(4-Lead)

AG44Q-MB-4C: Multi-MIMO 4 x Cellular 3G 4G 5G – (Black)
AG44Q-MW-4C: Multi-MIMO 4 x Cellular 3G 4G 5G – (White)
AG44Q-MB-4W: Multi-MIMO 4 x MIMO 2 x Multi-Band WiFi 6 – (Black)
AG44Q-MW-4W: Multi-MIMO 4 x MIMO 2 x Multi-Band WiFi 6 – (White)

