

M470 MIMO 3-Lead Low-Profile Series Mobility M2M IoT Antenna MIMO Cellular 4G LTE CBRS 5G NR / GPS GNSS MIMO Multi-Band WiFi 5 / WiFi Hallow / Bluetooth

MIMO Multi-Band WiFi 5 / WiFi HaLow / Bluetooth Built-In Ground Plane / Bolt Mount / Mag Mount / Adhesive Mount

		O 3-Lead Low-Profile Series Mobility M2M IoT Antenna CBRS 5G NR / GPS GNSS / MIMO Multi Band WiFi 5 (2.4GHz) ~5GHz) / Bluetooth (2.4GHz)
4G LTE CBRS 5G NR Frequency Range Bluetooth (2.4GHz) WiFi 5 Frequency Range		617-960MHz / 1710-5000MHz 2.4-2.5GHz / 4.9-5GHz (Concurrent)
4G CBRS 5G NR Avg. Peak Gain: <i>Isotropic</i> WiFi 5 / Bluetooth Avg. Peak Gain: <i>Isotropic</i>		(1.9dBi) 617-960MHz / (2dBi) 1710-3800MHz / (2dBi) 4900-5000MHz / (2.1dBi) CBRS 3.5GHz (2dBi) 2.4-2.5GHz / (2dBi) 4.9-5GHz
Typical Efficiency 4G 5G Elements		617-960MHz >70% 1710-3800MHz >70% 4900-5000MHz >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: 28mm (1.1") / Base Diameter: 73.6mm (2.9")	
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	3	Stainless Steel Mounting Bolt: Length 21.73mm (0.855") / Diameter 13.84mm (0.545") 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





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M470 MIMO 3-Lead Low-Profile Series Bolt Mount Antenna Configuration Options

M470 3-Element **Bolt Mount** Configurations

M470-BB-2CG: MIMO 2 x Cellular 4G LTE CBRS 5G NR / GPS GNSS - (Black) M470-BW-2CG: MIMO 2 x Cellular 4G LTE CBRS 5G NR / GPS GNSS - (White)

M470-BB-2WG: MIMO 2 x Multi-Band WiFi 5 / GPS GNSS – (Black) M470-BW-2WG: MIMO 2 x Multi-Band WiFi 5 / GPS GNSS - (White)

M470-BB-CGW: Cellular 4G LTE CBRS 5G NR / GPS GNSS / Multi-Band WiFi 5 - (Black) M470-BW-CGW: Cellular 4G LTE CBRS 5G NR / GPS GNSS / Multi-Band WiFi 5 - (White)



M470 MIMO 3-Lead Low-Profile Series Magnetic / Adhesive Mount Antenna Configuration Options

M470 3-Element Magnetic / Adhesive Mount Configurations

M470-MB-2CG: MIMO 2 x Cellular 4G LTE CBRS 5G NR / GPS GNSS - (Black) M470-MW-2CG: MIMO 2 x Cellular 4G LTE CBRS 5G NR / GPS GNSS - (White)

M470-MB-2WG: MIMO 2 x Multi-Band WiFi 5 / GPS GNSS – (Black) M470-MW-2WG: MIMO 2 x Multi-Band WiFi 5 / GPS GNSS - (White)

M470-MB-CGW: Cellular 4G LTE CBRS 5G NR / GPS GNSS / Multi-Band WiFi 5 - (Black) M470-MW-CGW: Cellular 4G LTE CBRS 5G NR / GPS GNSS / Multi-Band WiFi 5 - (White)





M470 MIMO 3-Lead Low-Profile Series Antenna Coax Cable Labels (SMA) CELL / WIFI / GPS









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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 1-5	WiFi 1 WiF 2 (802.11ba) WiFi 3 (802.11g) WiFi 4 (802.11n) WiFi 5 (802.11ac)		
* WiFi HaLow	WiFi HaLow (802.11ah) * Contact Us For M470 HaLow WiFi Configuration Options		



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M470 MIMO 3-Lead Low-Profile Series Antenna

Dimensions - Bolt Mount

M470 MIMO 3-Lead Low-Profile Series Bolt Mount

Height: 28mm (1.1") / Diameter: 73.6mm (2.9")



Stainless Steel Mounting Bolt Length 21.73mm (0.855") Diameter 13.84mm (0.545")

M470 MIMO 3-Lead Low-Profile Series Bolt Mount





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M470 MIMO 3-Lead Low-Profile Series Antenna

Dimensions - Magnetic / Adhesive Mount

M470 MIMO 3-Lead Low-Profile Series Magnetic / Adhesive Mount Antenna

Height: 28mm (1.1") / Diameter: 73.6mm (2.9")



2.9" 73.6mm





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Optional L-Bracket Mount (Sold Separately)

M470 MIMO 3-Lead Low-Profile Series Bolt Mount Antenna w/ Optional L-Bracket Mount Sold Separately



