



M19B 2-Lead Omni MIMO Series Cellular 4G 5G / WiFi 6 Antenna  
 MIMO 2-Lead Cellular 4G LTE CBRS 5G NR / MIMO WiFi 6 / HaLow  
 Omni Directional / L-Bracket Mount / Outside or Inside Use  
 \* Contact Us For M19B HaLow WiFi Configuration Options

M19B Omni MIMO Series M2M IoT Antenna Specifications – L-Bracket Mount	
Multi-Carrier MIMO 4G LTE CBRS 5G NR / MIMO Multi Band WiFi 6 (2.4GHz~6GHz) WiFi HaLow (902~928Mhz) / Bluetooth (2.4GHz) * Contact Us For M19B HaLow WiFi Configuration Options	
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 / (4dBi) WiFi HaLow 902~928Mhz * Contact Us For M19B HaLow WiFi Configuration Options
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
Mechanical / Environmental Specifications	
Radome	High Impact Polycarbonate Height: 8.6" / 218mm – Diameter: 2.4" / 60mm
16ft Coax Cables 1ft Coax Cables	2 x Cellular 4G 5G 16ft AGA200 Coax – SMA Male / 2 x WiFi 16ft AGA200 Coax – RP SMA Male 2 x Cellular 4G 5G 1ft AGA200 Coax – NF / 2 x WiFi 1ft AGA200 Coax – NF (Custom Length Coax Cable Options are Available. Contact us for details)
Connector Types	All Standard RF Connectors Available (Including FAKRA Connector Ends)
Mount Type	Includes Mounting Hardware Tilt L-Bracket Mount + U-Bolt Set
Mounting Mast Diameter	1.5"~2" / 40mm~50mm
Ingress Protection	IP69K
Wind Velocity	120 MPH
Operating Temp	-40° / +80°C (-40° / +176°F)
Net Weight	1.5bs / 0.7kg Includes Mounting Hardware

M19B / M19BF MIMO Series Antennas Include Built in Ground Plane / Coax Cables / L-Bracket Mount  
 "Built To Spec" Custom Cable Options are Available. Contact us for details.



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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: <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) * Contact Us For M19B HaLow WiFi Configuration Options



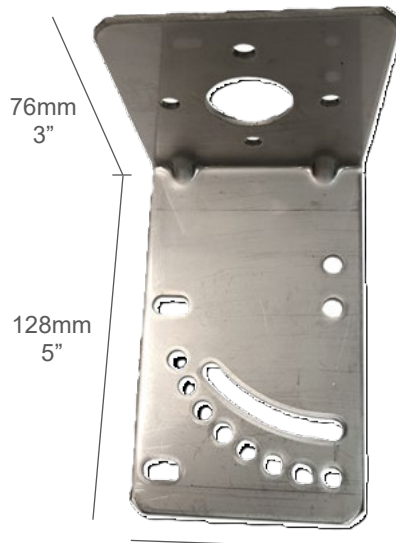


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M19B Omni MIMO Series Antenna  
 Dimensions / Tilt L-Bracket Mount



Includes  
 Tilt L-Bracket Mount / U-Bolt Set



M19B / M19BF MIMO Series Antennas Include Built in Ground Plane / Coax Cables / L-Bracket Mount  
 "Built To Spec" Custom Cable Options are Available. Contact us for details.





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M19B Omni MIMO Series Antenna Configuration Options – L-Bracket Mount (2 x 16ft Coax Cables)

<p>Configuration Options (SMA)</p>	<p>M19B-16-2C: MIMO Cellular 4G 5G Antenna w/ 2 x 16ft AGA200 Coax Cables – 2 x SMA Male          M19B--16-2W: MIMO WiFi 6 Antenna w/ 2 x 16ft AGA200 Coax Cables – 2 x RP SMA Male          M19B-16-CW: Cellular 4G 5G / WiFi 6 Antenna w/ 2 x AGA200 Coax Cables – SMA Male / RP SMA Male          * Contact Us For M19B HaLow WiFi Configuration Options</p>
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M19B-16-SMA



Includes  
 2 x 16ft Coax Cables  
 L-Bracket Mount

M19B-16-2C



M19B-16-2W



M19B-16-CW





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M19B Omni MIMO Series Antenna Configuration Options – L-Bracket Mount (2 x 16ft Coax Cables)

<p>Configuration Options (FAKRA)</p>	<p>M19BF-16-2C: MIMO Cellular 4G 5G Antenna w/ 2 x 16ft AGA200 Coax Cables – 2 x SMA Male          M19BF-16-2W: MIMO WiFi 6 Antenna w/ 2 x 16ft AGA200 Coax Cables – 2 x RP SMA Male          M19BF-16-CW: Cellular 4G 5G / WiFi 6 Antenna w/ 2 x AGA200 Coax Cables – SMA Male / RP SMA Male          * Contact Us For M19B HaLow WiFi Configuration Options</p>
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M19BF-16-FAKRA

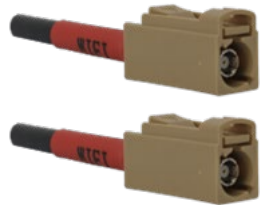


Includes  
 2 x 16ft Coax Cables  
 L-Bracket Mount

M19BF-16-2C



M19BF-16-2W



M19BF-16-CW





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M19B Omni MIMO Series Antenna Configuration Options – L-Bracket Mount (2 x 1ft Coax Cables)

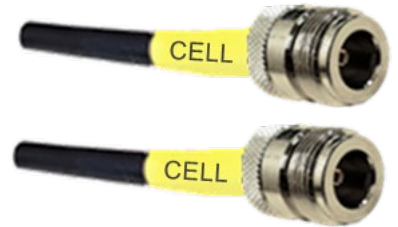
Configuration Options (NF)	M19B-1-2C: MIMO 2 x Cellular 4G 5G Antenna w/ 2 x 1ft Coax Cables – 2 x NF M19B-1-2W: MIMO 2 x WiFi 6 Antenna w/ 2 x 1ft Coax Cables – 2 x NF M19B-1-CW: Cellular 4G 5G / WiFi 6 Antenna w/ 2 x 1ft Coax Cables – 2 x NF * Contact Us For M19B HaLow WiFi Configuration Options
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M19B-1-NF



Includes  
 2 x 1ft Coax Cables  
 L-Bracket Mount  
 (Extension Cables Sold Separately)

M19B-1-2C



M19B-1-2W



M19B-1-CW

