

M29 2-Lead Omni MIMO Series M2M IoT Antenna Specifications

MIMO 2 x 4G LTE CBRS 5G NR / MIMO 2 x Multi Band WiFi 6 (2.4~6GHz) WiFi HaLow (902~928Mhz) / Bluetooth (2.4GHz)
Includes L-Bracket Mount

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>	(3.5dBi) 617-960MHz / (6dBi) 1710-3800MHz / (7dBi) 4900-6000MHz / (5dBi) CBRS 3.5GHz (9dBi) 2.4~6Hz
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" / 206mm - Diameter: 3" / 78mm
Connector Types	All Standard RF Connectors Available (Including FAKRA Connector Ends)
2 x Coax Cables (All Cables Full Length)	MIMO 2 x Cellular 4G 5G (AGA200 Coax Cables) – Options 16ft / 1ft MIMO 2 x WiFi 6 (AGA200 Coax Cables) – Options 16ft / 1ft Cellular 4G 5G / WiFi 6 (AGA200 Coax Cables) – Options 16ft / 1ft <i>Custom cable length options are available</i>
Mounting Type (<i>Stainless Steel</i>)	Includes Mounting Hardware <i>L-Bracket Mount + 2 x U-Bolt Sets</i>
Ingress Protection	IP69K
Wind Velocity	120 MPH
Operating Temp	-40° / +80°C (-40° / +176°F)
Weight w/16ft Coax Cables Weight w/1ft Coax Cables	2.25lb / 1.02kg 1.84lb / 0.83kg



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 Omni Directional / L-Bracket Mount / Outside or Inside Use
 * Contact Us For M29 HaLow WiFi Configuration Options

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 M29 HaLow WiFi Configuration Options





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M29 2-Lead Omni MIMO Series Antenna
 Dimensions

78mm / 3"

206mm / 8"



Includes
 L-Bracket Mount
 2 - U-Bolt Sets



Includes
 L-Bracket Mount
 2 - U-Bolt Sets



M29 / M29F MIMO Series Antennas Include Built in Ground Plane. Includes 2 x Finished Coax Cables
 "Built To Spec" Custom Cable Options are Available. Contact us for details.





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M29 2-Lead Omni MIMO Series Antenna Configuration Options w/ 2 x 16ft Coax Cables (SMA)
 Configuration Options

Configuration Options (SMA)	M29-16-2C: MIMO 2 x Cellular 4G 5G Antenna w/ 2 x 16ft Coax Cables - 2 x SMA Male M29-16-2W: MIMO 2 x WiFi 6 Antenna w/ 2 x 16ft Coax Cables - 2 x RP SMA Male M29-16-CW: Cellular 4G 5G / WiFi 6 Antenna w/ 2 x 16ft Coax Cables - SMA Male / RP SMA Male
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M29-16-SMA



Includes
 L-Bracket Mount
 2 - U-Bolt Sets

Includes
 2 x 16ft Coax Cables
 (SMA)

M29-16-2C



M29-16-2W



M29-16-CW



M29 / M29F MIMO Series Antennas Include Built in Ground Plane. Includes 2 x Finished Coax Cables
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M29F 2-Lead Omni MIMO Series Cellular 4G 5G / WiFi 6 Antenna
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M29F 2-Lead Omni MIMO Series Antenna Configuration Options w/ 2 x 16ft Coax Cables (FAKRA)
 Configuration Options

Configuration Options (FAKRA)	M29F-16-2C: MIMO 2 x Cellular 4G 5G Antenna w/ 2 x 16ft Coax Cables - FAKRA M29F-16-2W: MIMO 2 x WiFi 6 Antenna w/ 2 x 16ft Coax Cables - FAKRA M29F-16-CW: Cellular 4G 5G / WiFi 6 Antenna w/ 2 x 16ft Coax Cables - FAKRA
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M29-16-FAKRA



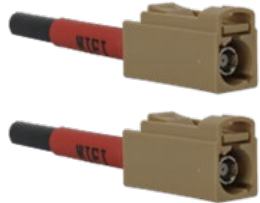
Includes
 L-Bracket Mount
 2 - U-Bolt Sets

Includes
 2 x 16ft Coax Cables
 (FAKRA)

M29F-16-2C



M29F-16-2W



M29F-16-CW



M29 / M29F MIMO Series Antennas Include Built in Ground Plane. Includes 2 x Finished Coax Cables
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M29 2-Lead Omni MIMO Series Antenna Configuration Options w/ 2 x 1ft Coax Cables (NF)
 Configuration Options

Configuration Options (NF)	M29-1-2C: MIMO 2 x Cellular 4G 5G Antenna w/ 2 x 1ft Coax Cables - 2 x NF M29-1-2W: MIMO 2 x WiFi 6 Antenna w/ 2 x 16ft Coax Cables - 2 x NF M29-1-CW: Cellular 4G 5G / WiFi 6 Antenna w/ 2 x 16ft Coax Cables - 2 x NF
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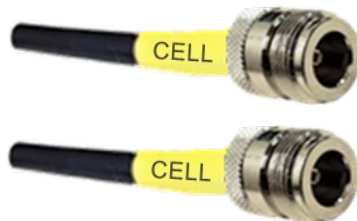
M29-16-NF



Includes
 2 x 1ft Coax Cables - NF
 Extension Cables Sold Separately

Includes
 L-Bracket Mount
 2 - U-Bolt Sets

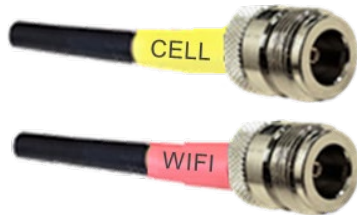
M29-1-2C



M29-1-2W



M29-1-CW



M29 / M29F MIMO Series Antennas Include Built in Ground Plane. Includes 2 x Finished Coax Cables
 "Built To Spec" Custom Cable Options are Available. Contact us for details.

