



DATASHEET Part No. 1004239-001 Product: Broadband External LTE MIMO Antenna

Part No. 1004239-001 Broadband External LTE MIMO Antenna

700 / 750 / 850 / 1700 / 1800 / 1900 / 2100 / 2700 MHz Supports: Broadband LTE (OCTA-BAND), LTE CAT-M, NB-IoT, SigFox, LoRa, Cellular LPWA, RPMA, Firstnet



High Performance External LTE MIMO Antenna

Low Band : 698-894 MHz High Band: 1710-2155 MHz High High Band: 2500-2690 MHz

KEY BENEFITS

Greater Flexibility

Different connector options upon request. Small form factor and lowprofile antenna independent of ground maintains consistent performance across design.

Quicker Time-to-Market

Standard antenna eliminates design fees, redesign cycle time and minimize risk associated with a customer solution. Quicker time to market.

Reliability

Comply with latest RoHS requirements, IP65 rated

APPLICATIONS

Firstnet
 LTE CAT-M

Ethertronics' 1004239-001 antenna is designed to offer the best performances across LTE frequencies for an external MIMO solution. Regardless of the ground it is connected to, this antenna offers strong LTE signal with optimum isolation between its two elements. IP65 rated ruggedized low-profile design allows for diverse integration and functionality, with back adhesive or screw mounting available. Cable lengths and connector types can be customized on demand.

The 1004239-001 broadband antenna offers full coverage for LTE bands 2, 4, 5, 7, 12, 13, 14, 17, 25, 26, 69, among others. Ethertronics' antennas are versatile with easy plug and play form factor for any major network carriers.

Electrical Specifications

Measured in free space with 2000 mm coax cables

Frequency (MHz)	698-894	1710-2155	2500-2690		
Average VSWR Match		<2.5:1			
Average Efficiency	58%	61%	59%		
Peak Gain	4.0 dBi	6.3 dBi	4.8 dBi		
ECC	<0.35	<0.1	<0.1		
Polarization	Linear				
Feed Point Impedance	50 Ω unbalanced				

Mechanical Specifications & Ordering Part Number

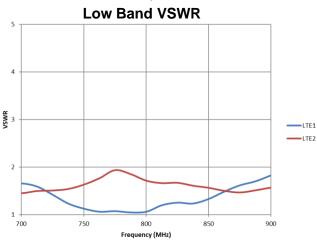
Ordering Part Number	1004239-001
Dimensions (mm)	167.0 x 90.0 x 17.2
Mounting Type	Screw mount, M4 screw (5.0 mm Hole Diameter); Optional Adhesive Foam
Weight (g)	272.0
Connector and Cable Type	(2x) SMA MALE 2000.0 mm long LMR-200 equivalent cable
Antenna Color	Black



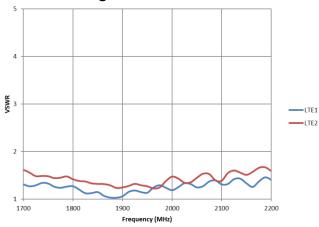
Ethertronics produces a wide variety of standard and custom antennas to meet user needs.

VSWR and Efficiency Plots

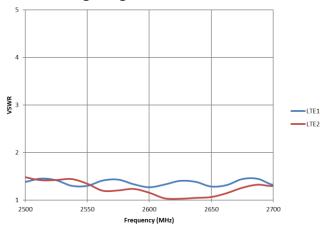
Typical Performance in free space with 2000 mm cables

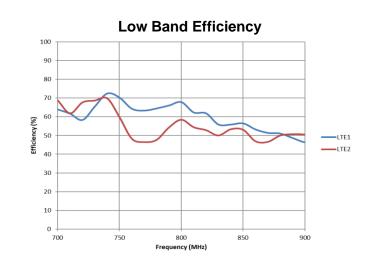




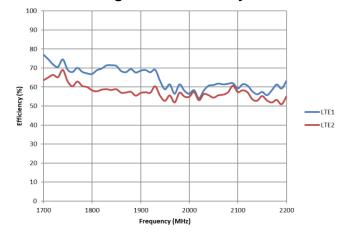


High High Band VSWR

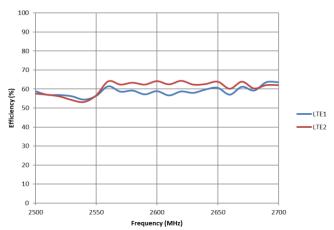




High Band Efficiency



High High Band Efficiency



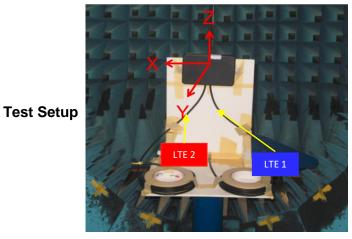
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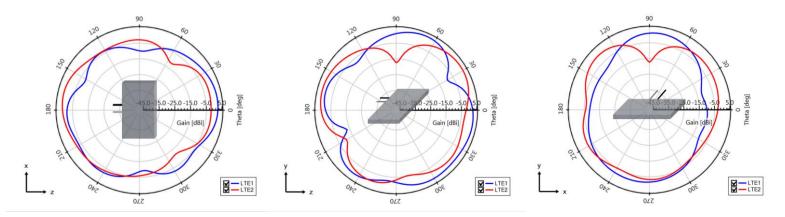
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Antenna Radiation Patterns – Low/High Band

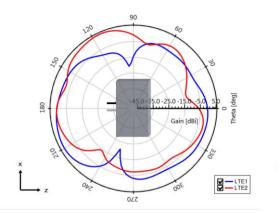
Typical Performance in free space with 2000 mm cables

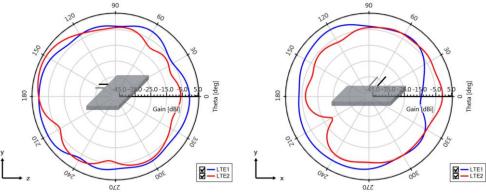


Low Band measured at 750 MHz



High Band measured at 1750 MHz



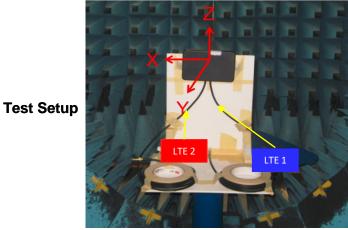




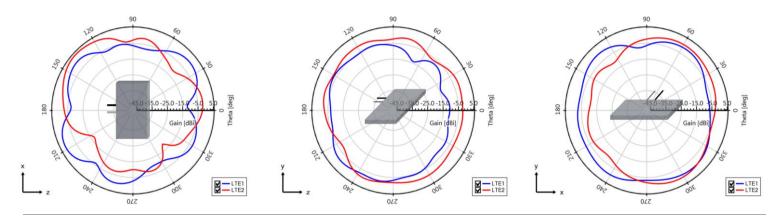
Ethertronics produces a wide variety of standard and custom antennas to meet user needs.

Antenna Radiation Patterns – High High Band

Typical Performance in free space with 2000 mm cables

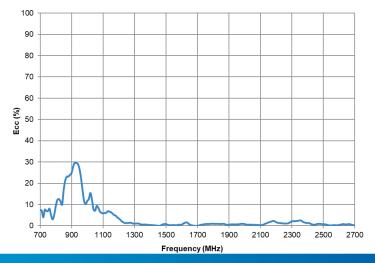


High High Band measured at 2550 MHz



Antenna Ecc

Typical Performance in free space with 2000 mm cables



tel +(1) 858.550.3820 | fax +(1) 858.550.3821 email: eth.usasales@avx.com 5501 Oberlin Drive, Suite 100 San Diego, CA 92121 - USA

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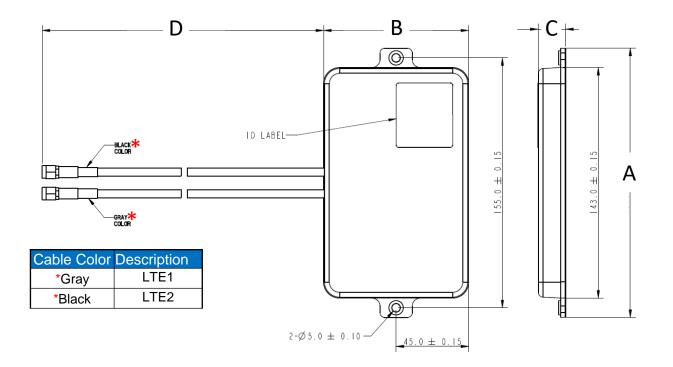


Ethertronics produces a wide variety of standard and custom antennas to meet user needs.

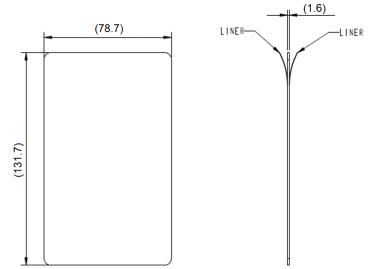
Antenna Dimensions

Typical antenna dimensions, in mm.

Part Number	A (mm)	B (mm)	C (mm)	D (mm)
1004239-001	167.0 ± 0.15	90.0 ± 0.15	17.2 ± 0.25	2000.0 ± 20.0



Optional Back Adhesive

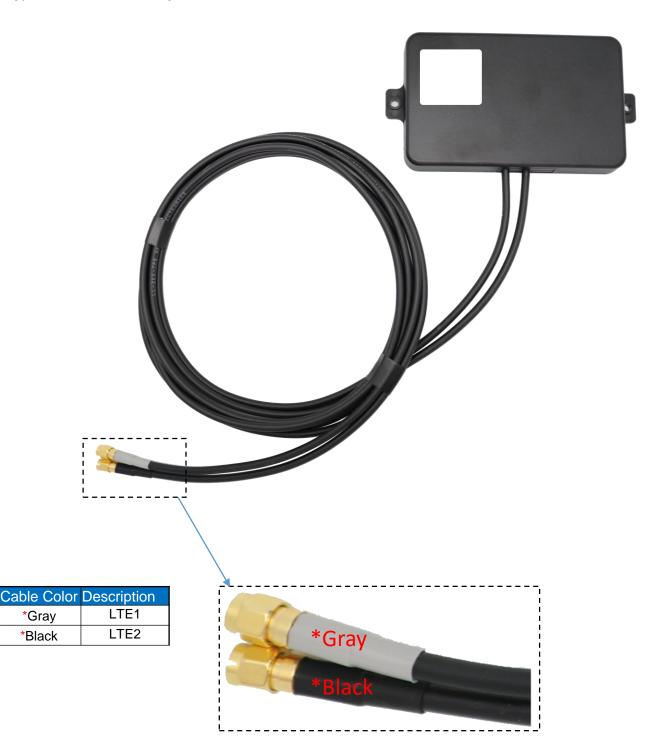




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Antenna Configuration

Typical antenna assembly.



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