

# Datasheet | Mobile Mark | MXG944 Antenna

## MXG944

### SURFACE MOUNT MIMO ANTENNA

#### PRODUCT OVERVIEW

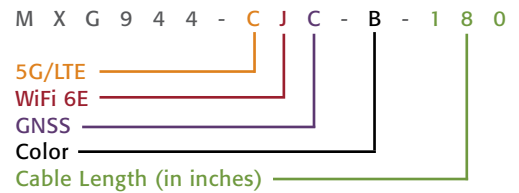
The MXG944 Antenna (4x 5G/LTE, 4x WiFi 6E/Bluetooth, 1x GNSS) provides complete coverage over all Cellular and WiFi 6E Frequencies, along with operation over GNSS Frequencies. GNSS operates on GPS, Galileo, Glonass, QZSS and Beidou at 1561, 1575, & 1602 MHz. Multiple WiFi 6E and Cellular elements provide MIMO coverage for both. This array of elements allows for a highly versatile antenna, while still managing to maintain an aerodynamic, sleek, and compact form, with all 9 elements being contained within the narrow profile of the MX series radomes. This Series is ideal for Public Safety and Emergency vehicles such as the Ford Police Interceptor.

\*Specify MXG944-HAHVHC-B-180 for the version with Fakra Connectors.

Visit our [eStore](#) to purchase an Antenna Online.

Electrical Specifications		
Frequency & Gain	5G/LTE Cables 1 - 4	617-960 MHz, 3 dBi Peak 1710-7200 MHz, 5 dBi Peak
	WiFi 6E Cables 5 - 8	2.4-2.5 GHz, 5 dBi Peak 4.9-7.2 GHz, 5 dBi Peak
	GNSS Cable 9	1561, 1575 & 1602 MHz, 5 dBi Peak
VSWR	5G/LTE - < 2.5:1 Over Range WiFi 6E - < 2:1 Over Range	
Impedance	50 Ohm Nominal	
Power Rating	10 Watts	
GNSS	Amplifier Gain & Bias Voltage	26 dB, 5 dBi 3/5 VDC
	Noise Figure	2.0 dB max, 1.7 dB typical
	Current	20 mA max, 10 mA typical

Mechanical Specifications	
Radome Material & Color	ASA UV-Inhibitive Plastic, Available in Black or White
Radome Dimension	2.50" Wide (63.5 mm) x 9.00" Length (228 mm) x 2.60" Height (66 mm)
Standard Connectors	5x SMA Plug (Male) for 5G/LTE and GNSS 4x Rev Pol SMA Plug (Male) for WiFi 6E SMA Jack (Female) for All Jumper Cables
1 Foot (0.30 m) Cables 14 Feet (4.27) Jumper Cables	LMR-100 Cables for 5G/LTE and WiFi 6E RG-174 Cable for GNSS
Operating Temperature	-40° to +80° C
Mounting	Stud Mount - 7/8" Dia. (22.22 mm) feed through. 3/4" lg. (19 mm) thread for up to 1/2" (12.7 mm) surface
Dust & Water Ingress	IP67 (When Properly Mounted)
Shock and Vibration	IEEE1478, EN61373, MIL-810G, TIA 329.2-C
RoHS Compliant	Yes



#### HIGHLIGHTS:

- 9 Cables (4x 5G/LTE, 4x WiFi 6E/BT, 1x GNSS)
- MIMO 5G/LTE & WiFi 6E/Bluetooth
- Mobile, Surface Mount
- Made-in-the-USA & UK

#### RELATED MODELS:

- LTMWG944 (4x 5G/LTE, 4x WiFi 6E, 1x GNSS)
- MXFG708 (2x 5G/LTE, 4x WiFi 6E, 1x GNSS)
- LTMG708 (2x 5G/LTE, 4x WiFi 6E, 1x GNSS)

#### COMMON APPLICATIONS:

- Public Safety Vehicles
- Fleet Management
- Public Transportation
- Installations Requiring Sleek Profile
- Fits Between Roof Ridges of the Ford Interceptor SUV

#### BANDS:

- 5G: n1,n2,n3,n5,n7,n8,n12,n20,n25,n28,n34,n38,n39,n40,n41,n66,n70,n71,n77,n78,n79,n80,n81,n82,n83,n84
- LTE: 1,2,3,4,5,6,7,8,9,10,12,13,14,17,18,19,20,22,23,25,26,27,28,29,30,33,34,35,36,37,38,39,40,41,42,43,44,46,47,48,49,52,53,54,66,67,68,69,70,71,85,252,255



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