

6-in-1 Compact External IP65 Antenna

MULTIMAX FV is a full outdoor antenna designed specifically to provide high performance connectivity for Fleet and Public Safety vehicles and assets connecting to almost any vehicular router or modem. This antenna offers two high gain cellular/LTE/MIMO antennas which support LTE Band 14 for FirstNet, three high gain dual band Wi-Fi antennas, and a GNSS antenna inside a single robust and compact housing.

- 2 x Wideband Cellular/LTE Elements (MIMO)
- 3 x 2.4 & 4.9-6GHz Wi-Fi Elements (MIMO)
- 1 x GNSS Element
- Six or less embedded antenna technologies that operate over multiple bands in one housing
- Leading LTE performance while in coexistence with multiple other embedded antenna technologies
- Lower profile and smaller footprint than competing solutions
- USA factory ensures fast turnaround customizations
- High gain provides bigger cellular footprint
- Must be mounted on metal
- · Available in black or white
- US Patent 10109918

Descriptions/Applications

The MULTIMAX FV antenna builds on the best in class RF performance, leading design features, and extended operational life of our highly successful Fleet and Public Safety Antenna products. This new product line also offers a rugged low-profile design which gives you greater protection against all the natural hazards a vehicle faces including vibration, hot, cold, ice, salt, dirt, car washes, and tree branch sweeps. Our antennas typically outlast the life of a vehicle.







Optimal MIMO Performance for LTE

Compact and Robust UV Resistant Housing





Full Outdoor Installation Ready

Customizable Cables and Connectors to Connect to Any Modem



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GNSS



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Fast custom turnaround time





Bolt Mount with Ad Adhesive Pad

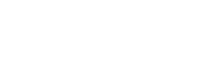


Magnetic Mount

Standard Configurations

AP-MMF-CCWWWG-Q-S22222-RP345-BL-15	MIMO Cell/LTE x 2, Wi-Fi x 3 & GNSS, Threaded Bolt Mount, SMA on Cell/LTE & GNSS, RP-SMA on Wi-Fi, Black, 15ft coax
AP-MMF-CCWWWG-A-S222222-RP345-BL-15	MIMO Cell/LTE x 2, Wi-Fi x 3 & GNSS, Adhesive Mount, SMA on Cell/ LTE & GNSS, RP-SMA on Wi-Fi, Black, 15ft coax
AP-MMF-CCWWWG-M-S222222-RP345-BL-15	MIMO Cell/LTE x 2, Wi-Fi x 3 & GNSS, Magentic Mount, SMA on Cell/ LTE & GNSS, RP-SMA on Wi-Fi, Black, 15ft coax

Also available in color white, customizable cable lengths up to 35 feet, and other connector variations.



FLEET SOLUTIONS



Electrical Data Elements 1 & 2 698-960/1700-2700 MHz **Frequency Range** Elements 3, 4 & 5 2.4/4.9-6.0 GHz Element 6 1550~1610 MHz Elements 1 & 2 LTE/Cellular **Operational Bands** Elements 3, 4 & 5 Wi-Fi Element 6 GPS L1/GALILEO E1/GLONASS G1/BeiDou B1/QZSS L1 698-960 MHz 3 dBi Elements 1 & 2 1710-2700 MHz 6.5 dBi Peak Gain: Isotropic Elements 3, 4 & 5 2.4 GHz, 5.5 GHz 8 dBi, 7 dBi 30.50 dBi Element 6 > 10 dB Elements 1 & 2 Isolation Elements 3, 4 & 5 > 30 dB **Correlation Co-efficient** Elements 1 & 2 < 0.1

Environmental Data			
Hazardous Substances	RoHS Compliant		
Temperature	-55°C to 85°C (-67°F to +185°F) Operating and Storage conformance to MIL-STD-810G Method 501.5		
Humidity (Non-Condensing)	5% to 96% Operating and Storage conformance to IEC 60068		
Water Ingress	IP65		
Military Spec	MIL-STD 810 conformance to vibration		

Mounting Data

		2.47" (62.6mm)
Dimensions	Width	2.44" (62.1mm)
	Length	6.34" (161mm)
Color	Black (BL) or White (WH)	

Cable Data-	Cell/LTE	Cable Data-	Wi-Fi	Cable Data-	GNSS
Туре	CFD195 Low Loss	Туре	CFD195 Low Loss	Туре	RG-174U
Diameter	0.195" (4.953 mm)	Diameter	0.195" (4.953 mm)	Diameter	0.100" (2.54 mm)
Length	1 feet (0.3 m)	Length	1 feet (0.3 m)	Length	1 feet (0.3 m)
Termination	SMA Male	Termination	RP-SMA Male	Termination	SMA Male

GNSS Data - Ceramic Patch Antenna Specification		GNSS Data - LNA Specification		
Bandwidth	1561 – 1602 MHz	Noise Figure	1.2 dB	
Gain@Zenith	2.5 dBi	Gain	28 dBi	
Polarization	R.H.C.P.	Voltage	3.3V~5.6V	
Axial Ratio	3.0 dB Typ.	Current	9.6±1mA@3.3V	