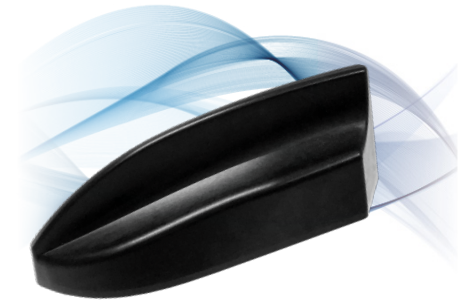


MULTIMAX™ FV

6-in-1 Compact External 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, 3 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



Optimal MIMO Performance for LTE



Compact and Robust UV Resistant Housing



Full Outdoor Installation Ready



Customizable Cables and Connectors to Connect to Any Modem



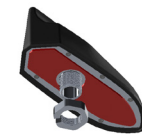
GNSS



Low loss cable accessories



Fast custom turnaround time



Bolt Mount with Adhesive Pad

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.

Standard Configurations

AP-MMF-CCWWG-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-CCWWG-Q-S22222-RP34-BL-15	MIMO Cell/LTE x 2, Wi-Fi x 2 & GNSS, Threaded Bolt Mount, SMA on Cell/LTE & GNSS, RP-SMA on Wi-Fi, Black, 15ft coax
AP-MMF-CCWG-Q-S2222-RP3-BL-15	MIMO Cell/LTE x 2, Wi-Fi & GNSS, Threaded Bolt Mount, SMA on Cell/LTE & GNSS, RP-SMA on Wi-Fi, Black, 15ft coax
AP-MMF-CCW-Q-S222-RP3-BL-15	MIMO Cell/LTE x 2 & Wi-Fi, Threaded Bolt Mount, SMA on Cell/LTE, RP-SMA on Wi-Fi, Black, 15ft coax
AP-MMF-CCG-Q-S222-BL-15	MIMO Cell LTE x 2 & GNSS, Threaded Bolt Mount, SMA on Cell LTE & GNSS, Black, 15ft coax
AP-MMF-CC-Q-S22-BL-15	MIMO Cell/LTE x 2, Threaded Bolt Mount, SMA on Cell/LTE, Black, 15ft coax

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

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

Environmental Data	
Hazardous Substances	RoHS Compliant
Temperature	-40°C to 85°C (-40°F to + 185°F) Operating and Storage
Humidity (Non-Condensing)	-5% to 95% Operating and Storage
Water Ingress	IP67
Military Spec	MIL-STD 810 conformance to vibration and humidity

Mounting Data		
Dimensions	Height	2.47" (62.6mm)
	Width	2.36" (59.8mm)
	Length	6.25" (158.8mm)
Operating Temp		-22°/176°F (-30°/+80°C)
Color		Black (BL) or White (WH)

Cable Data			
Cell/LTE & GNSS	Type	CFD195 Low Loss	Wi-Fi
	Diameter	0.195" (4.953 mm)	
	Length	1 feet (0.3 m)	
	Termination	SMA Male	
			CFD195 Low Loss
			0.195" (4.953 mm)
			1 feet (0.3 m)
			RP-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