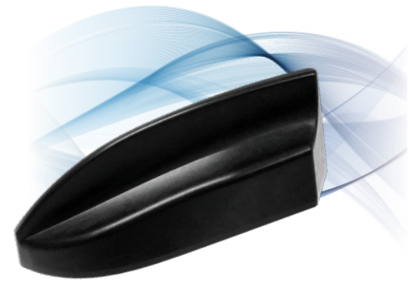


# MULTIMAX™ FV

## 5-in-1 Compact External IP65 Antenna for GETAC Video

MULTIMAX FV is our fully rugged outdoor antenna designed for GETAC Video equipped with five ports, designed specifically to provide high performance connectivity for Fleet and Public Safety vehicles. This antenna offers two high gain cellular/LTE/MIMO antennas which support LTE Band 14 for FirstNet, two 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)
- 2 x 2.4 & 4.9-6GHz Wi-Fi Elements (MIMO)
- 1 x GNSS Element
- 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
- Custom color coded coax cables (LTE blue, Wi-Fi red, GPS yellow)
- Printed date code on coax cable for product tracking
- US Patent 10109918



Optimal MIMO Performance for LTE & Wi-Fi



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

<b>AP-GVS-MMF-CCWWG-Q-BL-15</b>	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
<b>AP-GVS-MMF-CCWWG-Q-WH-15</b>	MIMO Cell/LTE x 2, Wi-Fi x 2 & GNSS, Threaded Bolt Mount, SMA on Cell/LTE & GNSS, RP-SMA on Wi-Fi, White, 15ft coax

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

### Environmental Data

Hazardous Substances	RoHS Compliant
Temperature	-40°C to 65°C (-40°F to + 149°F) Operating and Storage conformance to IEC 60068
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

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

#### Cable Data- Cell/LTE

Type	CFD195 Low Loss
Diameter	0.195" (4.953 mm)
Length	1 feet (0.3 m)
Termination	SMA Male
Color	Blue

#### Cable Data- Wi-Fi

Type	CFD195 Low Loss
Diameter	0.195" (4.953 mm)
Length	1 feet (0.3 m)
Termination	RP-SMA Male
Color	Red

#### Cable Data- GNSS

Type	RG-174U
Diameter	0.100" (2.54 mm)
Length	1 feet (0.3 m)
Termination	SMA Male
Color	Yellow

#### GNSS Data - Ceramic Patch Antenna Specification

Bandwidth	1561 – 1602 MHz
Gain@Zenith	2.5 dBi
Polarization	R.H.C.P.
Axial Ratio	3.0 dB Typ.

#### GNSS Data - LNA Specification

Noise Figure	1.2 dB
Gain	28 dBi
Voltage	3.3V~5.6V
Current	9.6±1mA@3.3V