

MULTIMAX[™] FV 2-in-1

Single Cell LTE and GNSS Sharkfin IP67 Antenna designed for Panasonic

MULTIMAX FV 2-in-1 is our full outdoor sharkfin antenna designed specifically for any Panasonic rugged notebook or tablet including the CF-33 that has an embedded LTE and a **dedicated GNSS** modem. This antenna offers a high gain cellular/LTE antenna which includes LTE Band 14 support for FirstNet, and a GNSS antenna inside a single robust and compact housing.

- 1 x Wideband Cellular/LTE Elements
- 1 x GNSS Element
- Two 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





Full Outdoor Installation Ready



Compact and Robust UV Resistant Housing



GNSS



Customizable Cables and Connectors to Connect to Any Modem



Fast custom turnaround time



Low loss cable accessories

Descriptions/Applications

The MULTIMAX FV 2-in-1 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.



Adhesive Pad

Standard Configurations

AP-MMF-CG-Q-S11-BL-15

Cell/LTE & GNSS, Threaded Bolt Mount, TNC on Cell/LTE & GNSS, Black, 15ft coax

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



Electrical Data					
Frequency Range	Element 1	698-960/1700-2700 MHz			
	Element 2	1550~1610 MHz			
Operational Bands	Element 1	LTE/Cellular			
	Element 2	GPS L1/GALILEO E1/GLONASS G1/BeiDou B1/QZSS L1			
Peak Gain: Isotropic	Element 1	698-960 MHz	3 dBi		
		1710-2700 MHz	6.5 dBi		
	Element 2	30.50 dBi			

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	IP67
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		Cable Data- GNSS		
Type	CFD195 Low Loss	Туре	RG-174U	
Diameter	0.195" (4.953 mm)	Diameter	0.100" (2.54 mm)	
Length	1 feet (0.3 m)	Length	1 feet (0.3 m)	
Termination	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	