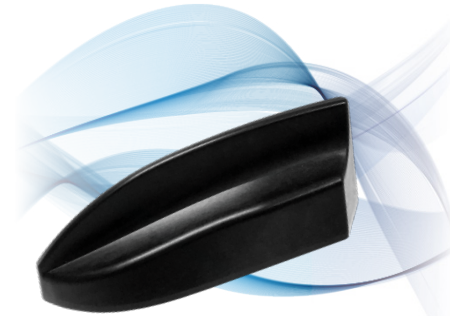


# MULTIMAX™ FV 2-in-1

Single Cell LTE and GNSS Sharkfin IP65 Antenna designed for Panasonic Rugged Notebooks and Tablets

The MULTIMAX FV 2-in-1 is an outdoor vehicular sharkfin antenna designed specifically for any Panasonic rugged notebooks and tablets, including the CF-33 with embedded LTE and a dedicated GNSS modem. The MULTIMAX FV 2-in-1 offers a high gain cellular/LTE antenna with FirstNet™ LTE Band 14 support with a GNSS antenna inside a 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
- 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



Outdoor Installation Ready



Compact and Robust UV Resistant Housing



GNSS



Low loss cable



Fast custom turnaround time



Bolt Mount with Adhesive Pad

## Descriptions/Applications

The MULTIMAX FV 2-in-1 builds on our best in class RF performance, leading design features, and extended operational life of our highly successful Fleet and Public Safety Antenna products. The MULTIMAX FV 2-in-1 offers a rugged low-profile design which provides greater protection against natural hazards a vehicle faces including vibration, tree branch sweeps, heat, cold, ice, salt, dirt, and water. Airgain antennas typically outlast the life of a vehicle.

## Standard Configurations

<b>AP-PAN-MMF-CG-Q-BL-19</b> <b>Panasonic P/N: AI-2CLSFB</b>	Single Cell/LTE & GNSS, Threaded bolt mount, TNC connectors, Black, 19ft coax
<b>AP-PAN-MMF-CG-Q-WH-19</b> <b>Panasonic P/N: AI-2CLSFWH</b>	Single Cell/LTE & GNSS, Threaded bolt mount, TNC connectors, White, 19ft coax

### 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	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

### Cable Data- GNSS

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

### 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