

## ROOF TOP COMBINATION ANTENNA (V/UHF, WiFi, GPS)

This product incorporates three antennas operating at 149-159 MHz or 380-400 MHz for public safety, 1571-1579 MHz for GPS and 2400-2500 MHz for WiFi applications. While GPS and WiFi antennas are enclosed inside a shark fin structure, a special connector is installed on the structure for VHF or UHF whip antenna which is accompanying the product. The small form factor of the shark fin makes it easy to install on vehicles or buildings where WiFi and global navigation is required while providing rugged impact resistant housing. The VHF and/or UHF whip antenna can be selected while ordering the item. This product is designed to withstand impact as well as water and dust intrusion, rating the product as IP67 ingress protection code. Three coaxial cables with three different lengths and terminations are assembled on the product. Originally the cable lengths and connector types are as follows:

- ▶ Male type FME connector for V/UHF whip antenna,
- ▶ Female type FME connector for GPS antenna,
- ▶ Female type SMA connector for WiFi antenna.

The antenna can be configured with different cable types, in varying lengths and with various connector types.

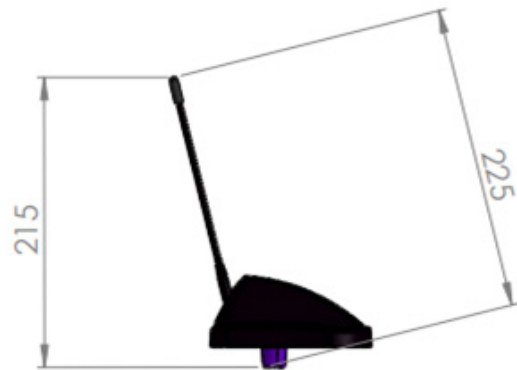




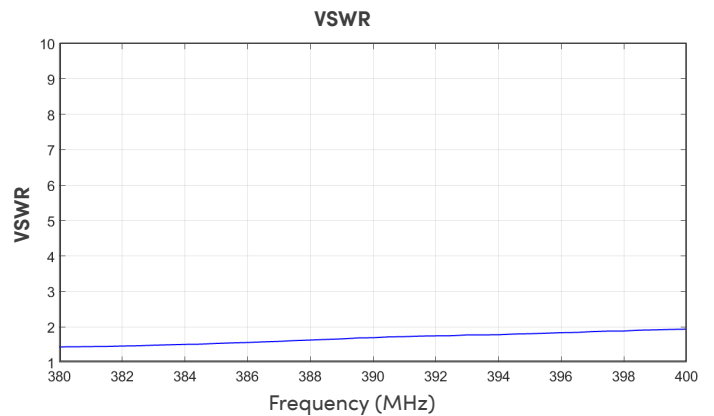
## WIDEBAND WHIP ANTENNA FOR HANDHELD / MANPACK RADIOS

	Whip	GPS	Wifi
<b>Cable Type</b>	RG174		
<b>Cable Diameter</b>	2.8 mm		
<b>Cable Length</b>	360 mm	330 mm	270 mm
<b>Cable Termination</b>	FME plug	FME socket	SMA socket
<b>Part Number</b>	5000109	-	-
<b>Frequency Range (MHz)</b>	380 - 400	1571-1579	2400-2500
<b>Operational Bands</b>	UHF	GPS	WLAN
<b>VSWR</b>	< 2 : 1	< 1.5 : 1	-
<b>Gain</b>	2 dBi	LNA 26 dB	Peak Isotropic 2dBi
<b>Polarisation</b>	Linear	RHCP	-
<b>Pattern</b>	Omni Directional	-	-
<b>Impedance</b>	50 Ω	-	-
<b>Max Input Power</b>	60 W CW	-	-
<b>Operating Voltage</b>	-	3-7 V DC	-
<b>Current</b>	-	Typical 14mA	-
<b>Dimensions</b>	50x120x58 mm		
<b>Lengths</b>	180 ± 2mm	-	-
<b>Operating Temperature</b>	-40° / +80°C		
<b>Material</b>	Impact resistant UV light stabilised ABS		
<b>Color</b>	Black		
<b>Ingress Protection</b>	IP67		

### ► Technical Dimensions



### ► Typical VSWR vs Frequency for the UHF Whip



### ► Typical VSWR vs Frequency for the WiFi

