GPSBM

Magnetic Mount Multifunction Antenna

GPSBM

OEM shark fin styling

GPS, 2G/3G/4G cellular & 2.4 / 4.9-6GHz in one housing

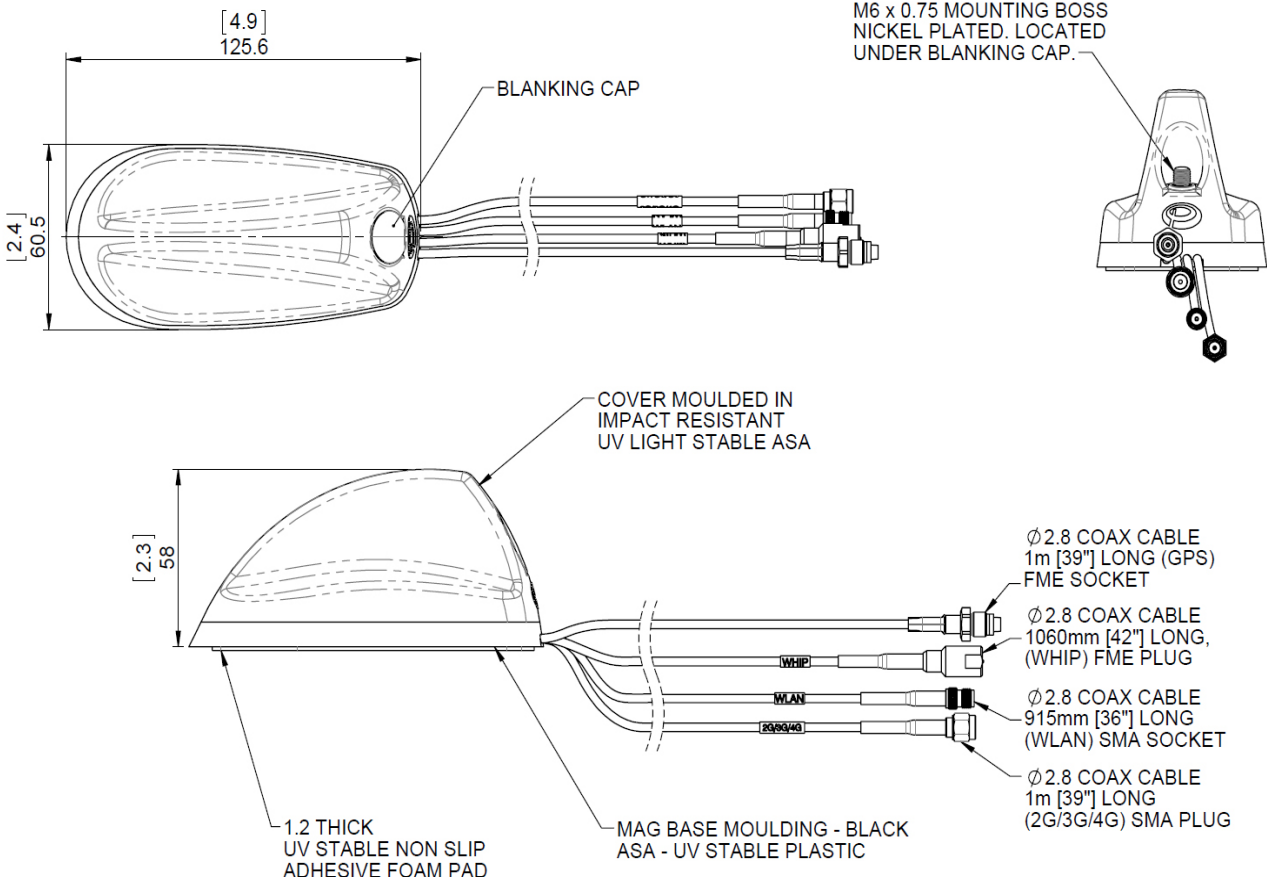Heavy duty design for optional VHF or UHF whip

Magnetic mount

The GPSBM provides antenna coverage for multiple technologies within one antenna housing. Trusted by public safety, utilities and transportation companies all over the world the GPSBM sets the industry standard in functionality.

The GPSBM offers three internal antenna systems, GPS, 2G/3G/4G cellular, dualband WiFi/WiMAX and an optional whip mounting for VHF or UHF whips. The OEM shark fin style design provides multiple antenna functions while remaining discreet.

The GPSBM is suitable for the public safety (covert and discreet), industrial and transportation sectors, where a cost effective, efficient and robust antenna is essential to the application.

With a heavy duty magnet mount base, the GPSBM can be installed without any damage to the vehicle, making it perfect for drive testing or temporary fits.
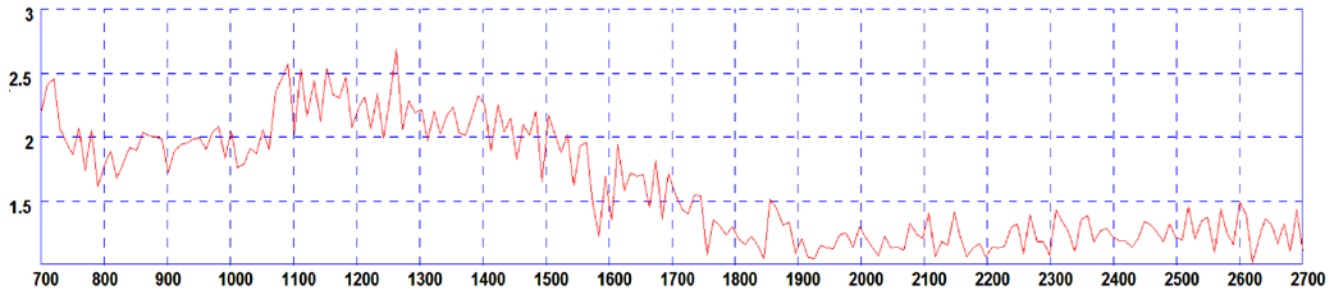
Technical Drawing

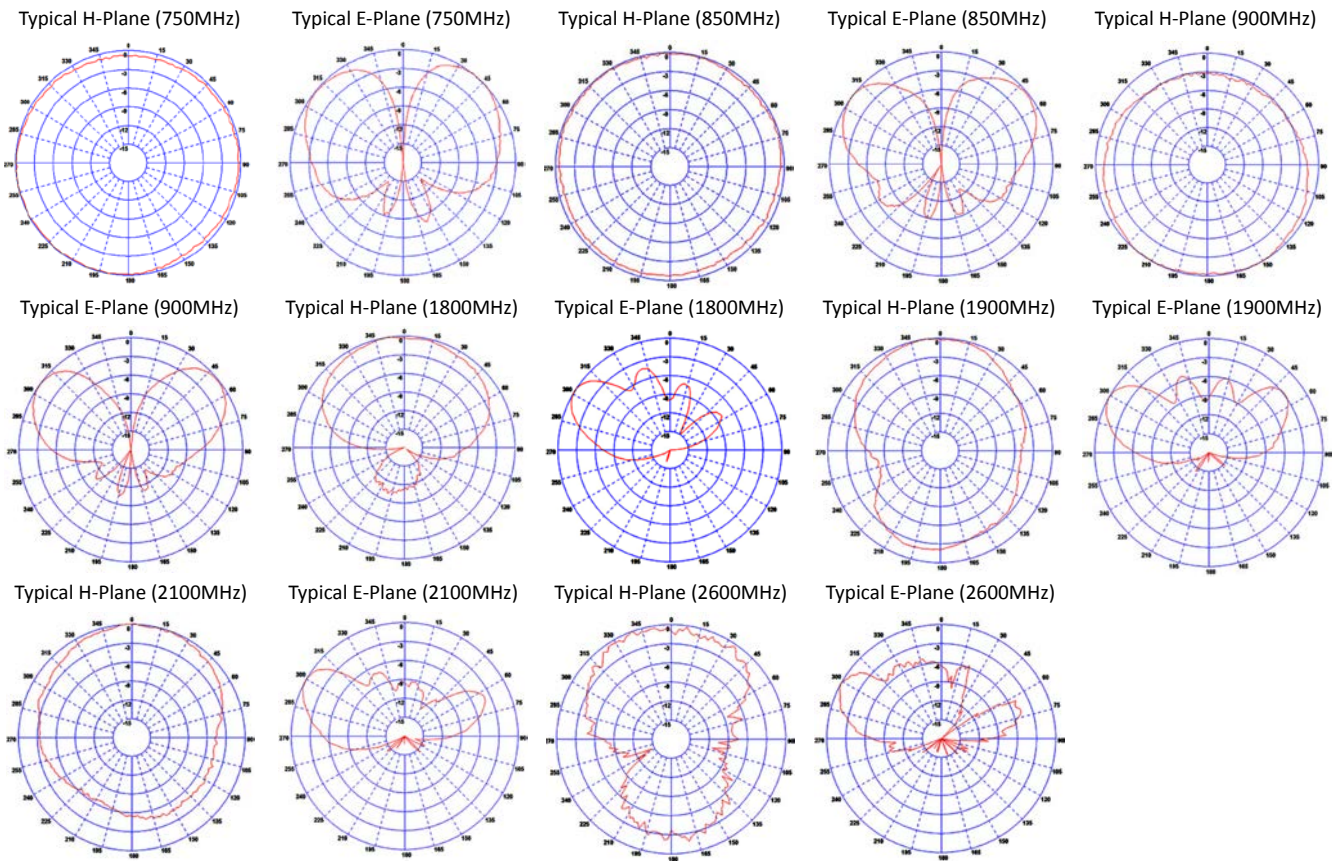[4.9] 125.6

[2.4] 60.5

BLANKING CAP

M6 x 0.75 MOUNTING BOSS NICKEL PLATED. LOCATED UNDER BLANKING CAP.

COVER MOULDED IN IMPACT RESISTANT UV LIGHT STABLE ASA

[2.3] 58

∅2.8 COAX CABLE 1m [39"] LONG (GPS) FME SOCKET

∅2.8 COAX CABLE 1060mm [42"] LONG, (WHIP) FME PLUG

WHIP

WLAN

∅2.8 COAX CABLE 915mm [36"] LONG (WLAN) SMA SOCKET

2G/3G/4G

∅2.8 COAX CABLE 1m [39"] LONG (2G/3G/4G) SMA PLUG

1.2 THICK UV STABLE NON SLIP ADHESIVE FOAM PAD

MAG BASE MOULDING - BLACK ASA - UV STABLE PLASTIC

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Typical VSWR - Cellular Element*

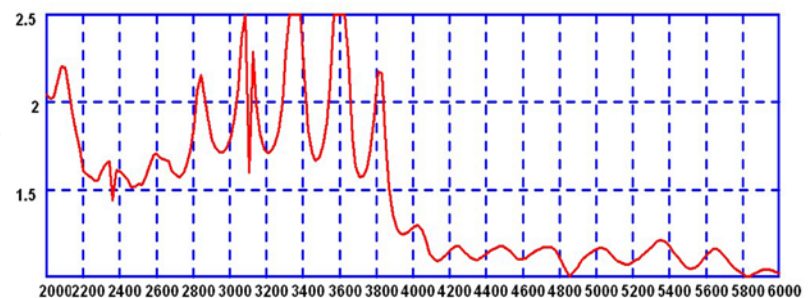*VSWR measured with no whip and 5m (16') of CS29 cable on a 600 x 600 mm (2' x 2') groundplane

Typical H-Plane (750MHz)	Typical E-Plane (750MHz)	Typical H-Plane (850MHz)	Typical E-Plane (850MHz)	Typical H-Plane (900MHz)

Typical E-Plane (900MHz)	Typical H-Plane (1800MHz)	Typical E-Plane (1800MHz)	Typical H-Plane (1900MHz)	Typical E-Plane (1900MHz)

Typical H-Plane (2100MHz)	Typical E-Plane (2100MHz)	Typical H-Plane (2600MHz)	Typical E-Plane (2600MHz)

Typical H-Plane (2400MHz)	Typical H-Plane (5400 MHz)	Typical VSWR - WLAN Element*

* VSWR measured without cable.

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Part No.		
		GPSBM
Electrical Data		
Frequency Range (MHz)	Element 1	1575
	Element 2	698-960, 1710-2170, 2500-2700
	Element 3	2200-2700 & 4900-6000
	Element 4	Dependent on selected whip
Operational Bands	Element 1	GPS
	Element 2	2G/3G/4G
	Element 3	2.4GHz WLAN / Public Safety 4.9GHz / 5.8GHz WiFi
	Element 4	Dependent on selected whip
Peak gain: Isotropic	Element 2	1dBi
	Element 3	2dBi
Polarisation		Vertical
Pattern		Omni-directional
Impedance		50Ω
Max Input Power (W)		Internal elements 25W / main whip 60W
GPS Data		
Frequency Range (MHz)		1575
VSWR		<1.5:1 ± 4MHz
Gain: LNA		26dB
Polarisation		Right Hand Circular
Operating Voltage		3-5V DC (fed via coax)
Current		Typical 15mA
Mechanical Data		
Dimensions (inches)	Total Height	2.3 (58 mm)
	Length	4.72 (120 mm)
	Width	2.3 (58 mm)
Operating Temp (°C)		-40°/176°F (-40°/ +80°C)
Material		Impact resistant UV light stabilised ABS
Colour		Black
Cable Data		
Cable Type	Whip	RG174
	GPS	
	Cellular	
	WLAN	
Diameter (inches)	Whip	0.11 (2.8 mm)
	GPS	
	Cellular	
	WLAN	
Length (feet)	Whip	3.51 (1.07 m)
	GPS	3.51 (1.07 m)
	Cellular	3.51 (1.07 m)
	WLAN	3.51 (1.07 m)
Termination	Whip	FME plug
	GPS	FME socket
	Cellular	SMA plug
	WLAN	SMA socket

PANORAMA P ANTENNAS