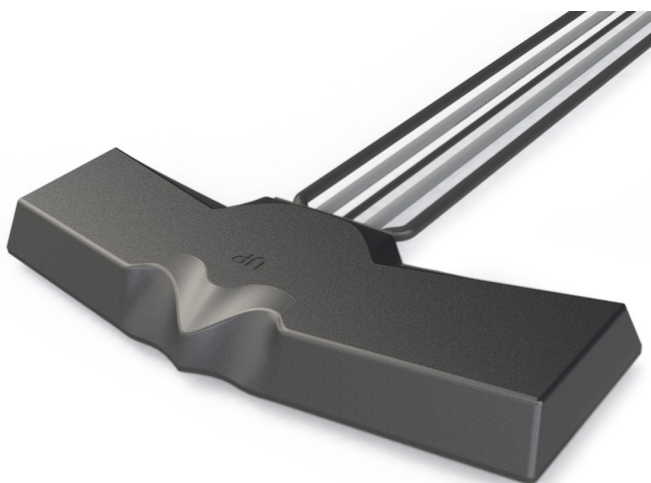


# Dash Mount GPS/GNSS, WiFi + MiMo 4G/3G/2G Antenna

BATGM-7-60[-24-58]



## Dash Mount 3.5GHz 5G 4G/3G/2G Antenna with optional GPS/GNSS & / (MiMo) WiFi

Mount on or under dashboard

MiMo 3.5GHz 5G & 4G/3G/2G functionality

Optional SiSo or MiMo WiFi

GPS/GNSS 26dB LNA

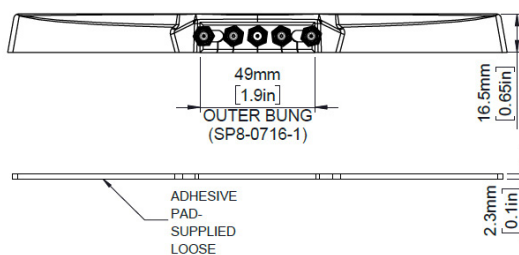
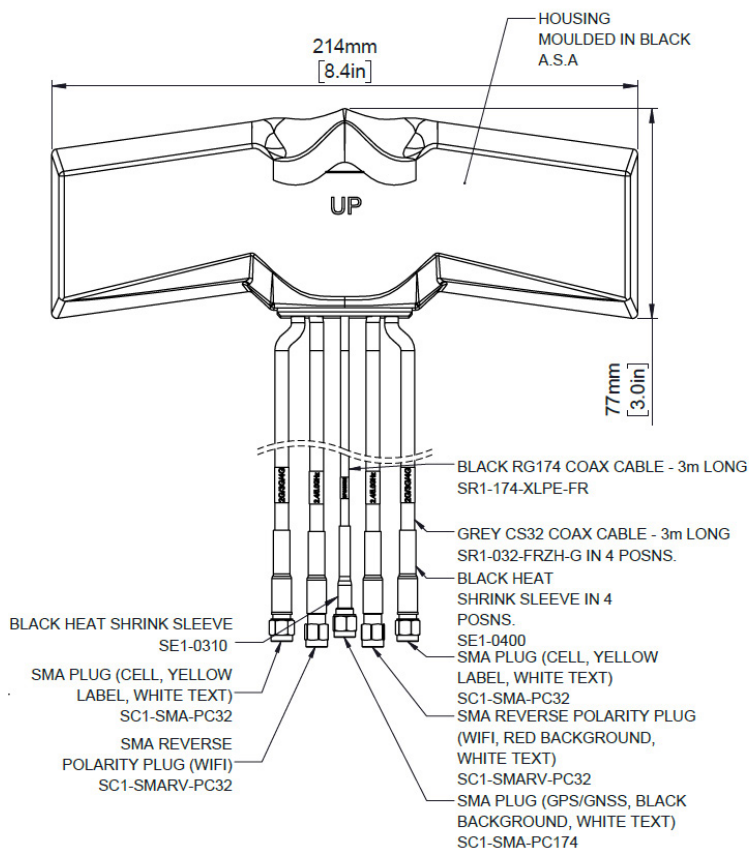
The Panorama BATG range is designed for Telematics applications requiring high speed data with MiMo 4G / 3.5GHz 5G and fallback 3G/2G support along with optional positioning through GPS/GNSS, and optional dual band 2.4/5.0GHz Wifi.

The isolated dual 4G/3G/2G antennas cover 698-960/1710-6000MHz and the efficient element design ensures a high first time connection rate and an ongoing, robust communications link even in many low coverage areas.

The antenna is designed to be mounted on or under a vehicle dashboard but can be mounted on any non-conductive surface. The BAT range is supplied with up to five integrated low loss cables which are flame retardant and meet the requirements of UN ECE 118.

### Technical Drawing

BATGM-7-60-24-58 shown



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## BATGM-7-60[-24-58]

### Product Data

Part No.		BATGM-7-60-24-58	BATGM-7-60-S24-58	BATGM-7-60
<b>Electrical Data</b>				
Frequency Range (MHz)	Elements 1&2	698-960/1710-6000		
	Element 3	1562-1612MHz		
	Elements 4 (& 5)	2.4/5.0GHz -		
Peak Gain†	Elements 1&2	2dBi (698-960MHz) / 3dBi (1710-2170MHz) / 5dBi (2500-6000MHz)		
	Element 4 (& 5)	4dBi (2.4GHz) / 5dBi (5.0GHz) -		
Typical VSWR*	Elements 1&2	<2:1		
	Element 4 (&5)	<2.5:1		
Typical Isolation*	Elements 1&2	<10dB		
Pattern	Omnidirectional			
Impedance	50 Ohms			
Max input power (W)	20			
<b>GPS/GNSS Data</b>				
Frequency Range (MHz)	1562-1612MHz			
LNA Peak Gain	26dB			
Typical Out of Band Rejection	>40dB (+/- 100MHz f)			
Notch filter Rejection @787MHz	23dBm			
Typical Voltage	3-5VDC <20ma			
<b>Mechanical Data</b>				
Dimensions (mm)	Length	214 (8.4")		
	Width	77 (3")		
	Height	16.5 (0.65")		
Operating Temp (°C)	-30° / +70°C (-30° / 158°F)			
Material	ASA			
Colour	Black			
<b>Mounting Data</b>				
Fixing	Adhesive pad			
<b>Cable Data</b>		<b>Elements 1&amp;2 (Cell)</b>	<b>Element 3(GPS)</b>	<b>Elements 4&amp;5 (WiFi) [if present]</b>
Cable Type	CS32 (meets UN ECE 118)		FR RG174 (meets UN ECE 118)	CS32 (meets UNECE 118)
Diameter (mm)	5 (0.2")		2.8 (0.1")	5 (0.2")
Length (m)	3 (10')		3 (10')	3 (10')
<b>Termination</b>				
BATGM-7-60-24-58	2x SMA Plug (m)		SMA Plug (m)	2x Rev Pol SMA Plug
BATGM-7-60-S24-58	2x SMA Plug (m)		SMA Plug (m)	1x Rev Pol SMA Plug
BATGM-7-60	2x SMA Plug (m)		SMA Plug (m)	

\*VSWR measured on 3mm thick ASA with 3m (10') of CS32 cable

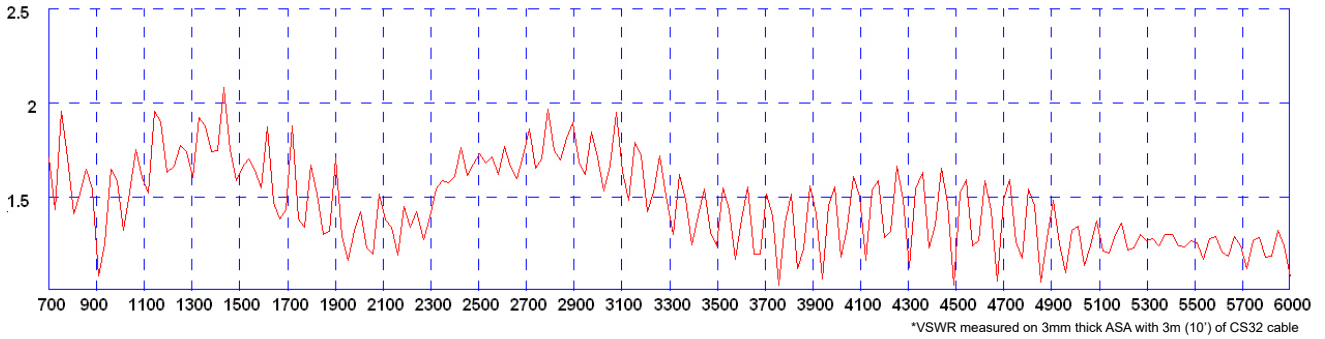
† Peak gain simulated in CST Microwave Studio and does not include cable loss.

# Dash Mount GPS/GNSS, WiFi + MiMo 4G/3G/2G Antenna

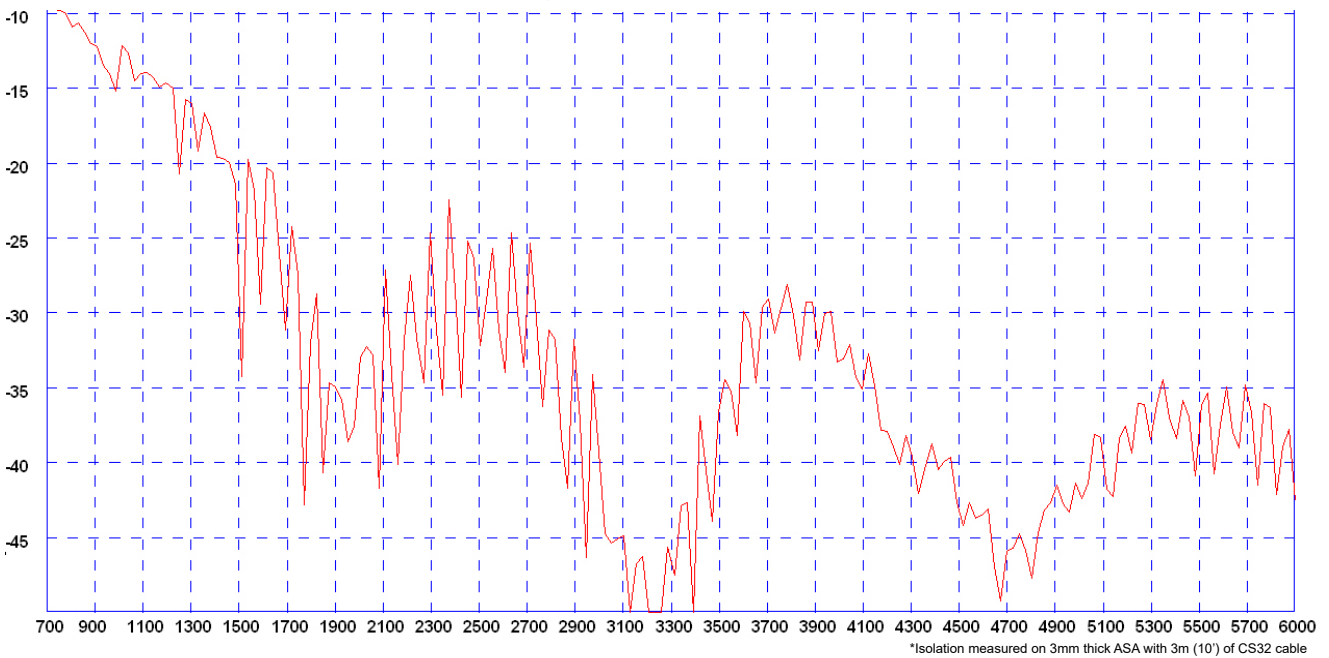
BATGM-7-60[-24-58]

Electrical Data - Cell

Typical VSWR Elements 1&2\*

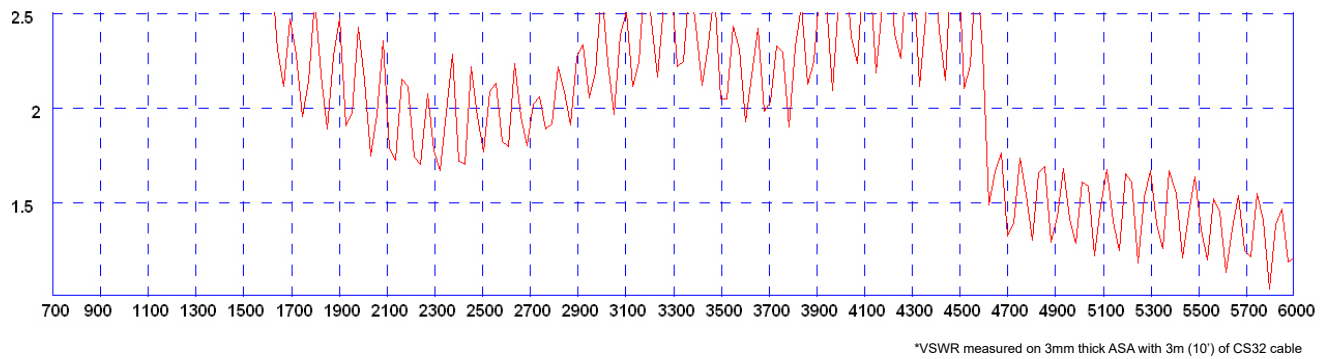


Typical Isolation Elements 1&2\*



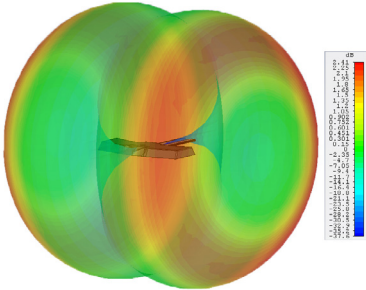
Electrical Data- WiFi

Typical VSWR Elements 4&5\*

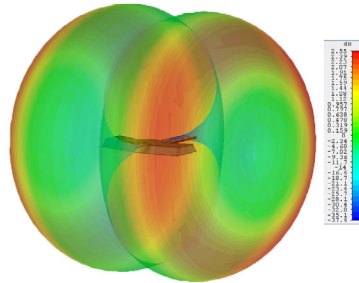


3D Patterns - Cell

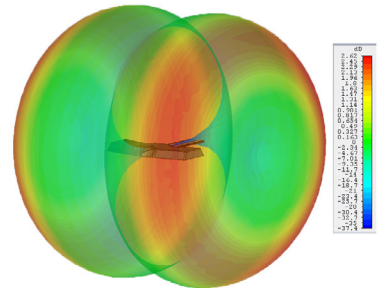
Typical 3D Pattern - 700MHz Elements 1&2 fed



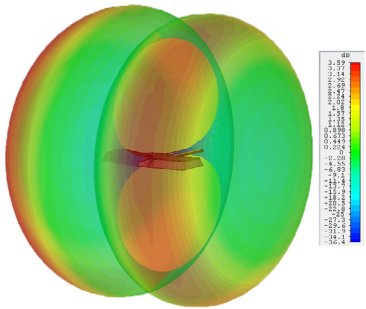
Typical 3D Pattern - 800MHz Elements 1&2 fed



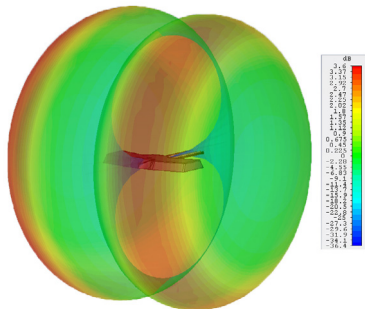
Typical 3D Pattern - 900MHz Elements 1&2 fed



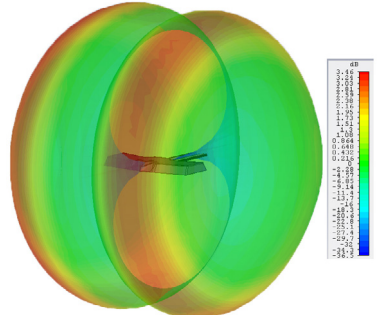
Typical 3D Pattern - 1800MHz Elements 1&2 fed



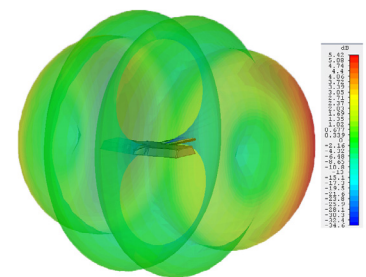
Typical 3D Pattern -1900MHz Elements 1&2 fed



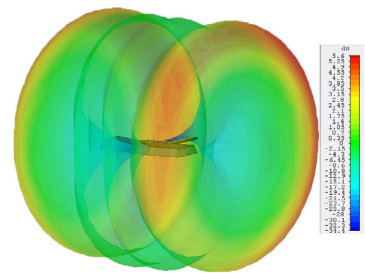
Typical 3D Pattern - 2100MHz Elements 1&2 fed



Typical 3D Pattern - 2600MHz Elements 1&2 fed

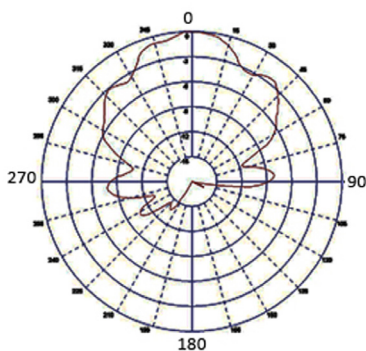


Typical 3D Pattern -3600MHz Elements 1&2 fed



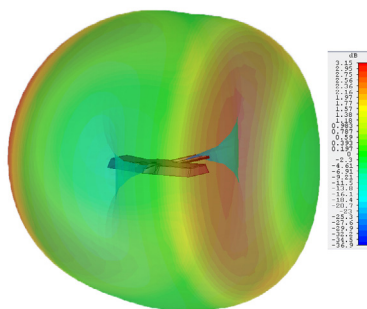
Pattern -GNSS

Typical E Plane GPS/GNSS - 1575MHz Element



3D Patterns -WiFi

Typical 3D Pattern - 2.4GHz Elements 4&5 fed



Typical 3D Pattern - 5.4GHz Elements 4&5 fed

