



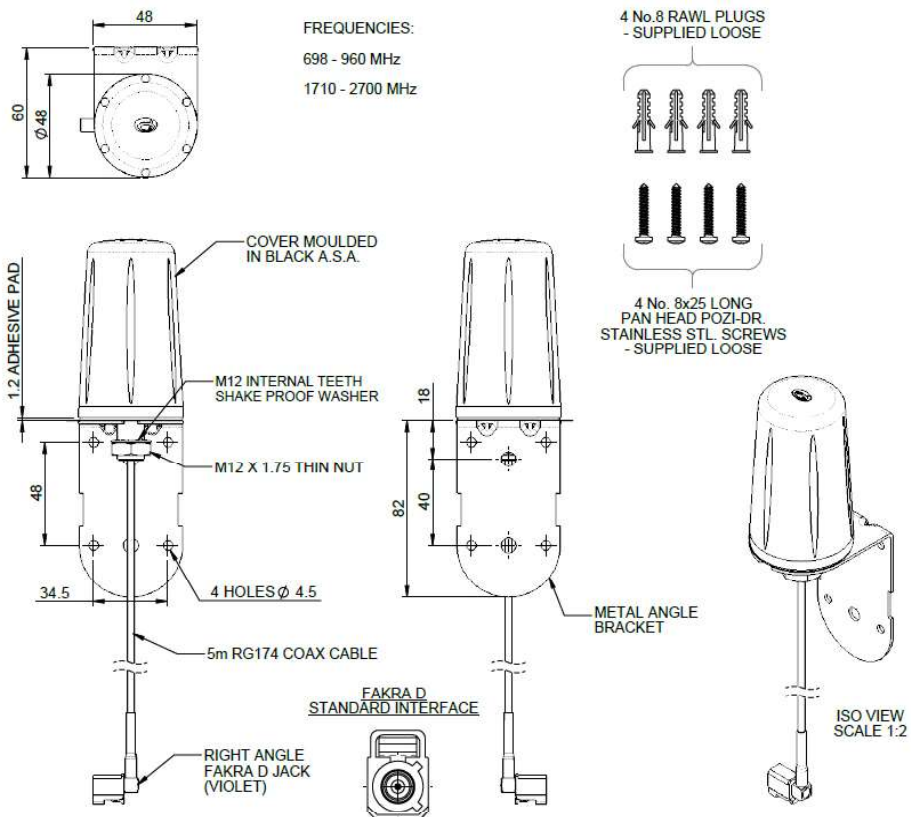
Rugged low profile design
 Covers global cellular / LTE bands
 Ideal for vending machines, utility meters & kiosks

The Panorama LPBE is a range of low cost high performance antennas for challenging applications. At only 82mm (3.22") high and protected by a robust high impact radome the antenna is almost impervious to daily wear, tear and impact.

The LPBE offers excellent performance across a wide bandwidth. Mounted on a 300mm diameter groundplane or optional accessory bracket the LPBE covers global cellular and LTE frequencies from 698-960 MHz and 1710-2700MHz making it an extremely versatile product.

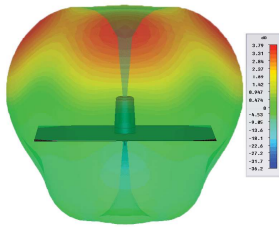
Supplied with a convenient adhesive pad and flexible RG174 cable the LPBE is easy to install and compatible with a large range of modems. The IN2213 is also supplied with a mounting bracket and a range of accessory screws and rawl plugs.

Technical Drawing

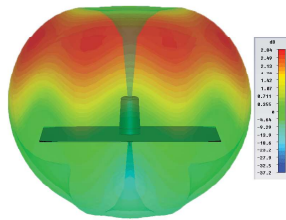


Simulated Radiation Patterns*

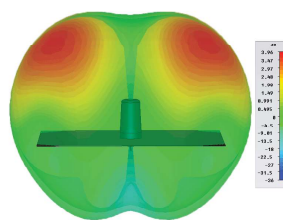
3D Gain Plot (700MHz)



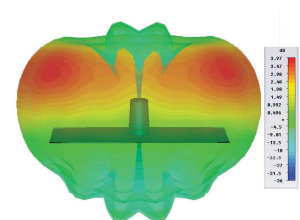
3D Gain Plot (800MHz)



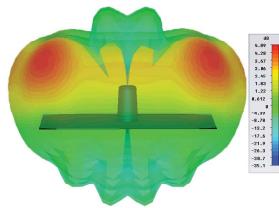
3D Gain Plot (900MHz)



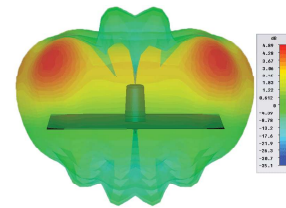
3D Gain Plot (1800MHz)



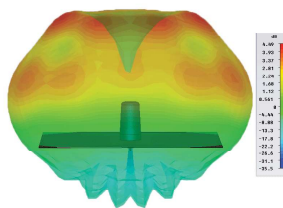
3D Gain Plot (1900MHz)



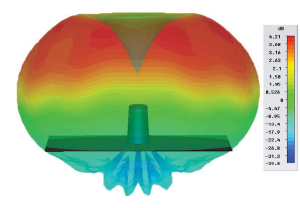
3D Gain Plot (2100MHz)



3D Gain Plot (2400MHz)

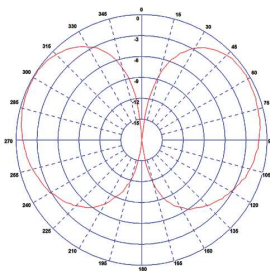


3D Gain Plot (2600MHz)

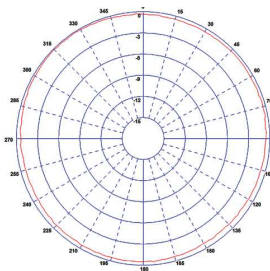


Measured Radiation Patterns*

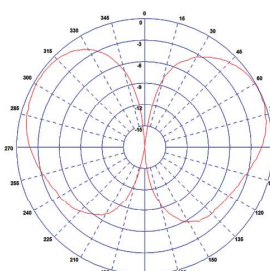
Typical E Plane (750MHz)



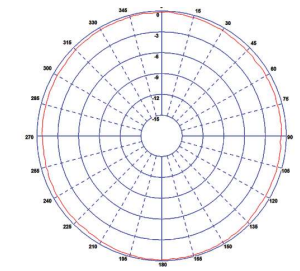
Typical H Plane (750MHz)



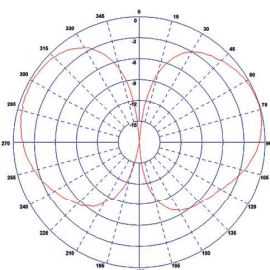
Typical E Plane (850MHz)



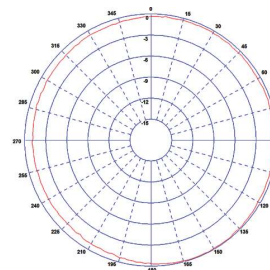
Typical H Plane (850MHz)



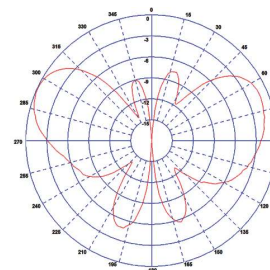
Typical E Plane (900MHz)



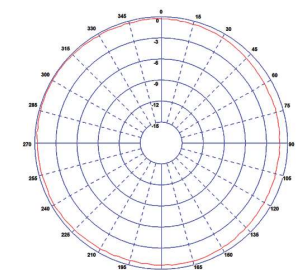
Typical H Plane (900MHz)



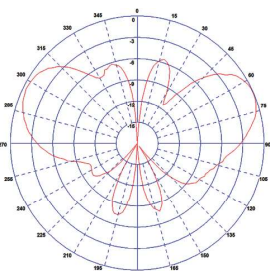
Typical E Plane (1800MHz)



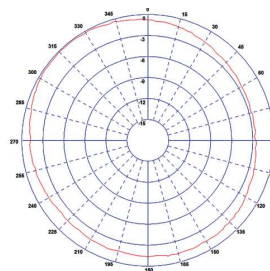
Typical H Plane (1800MHz)



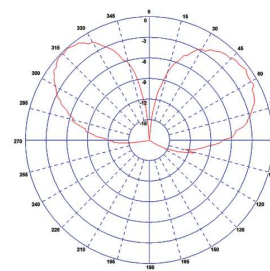
Typical E Plane (2100MHz)



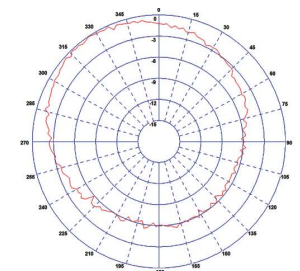
Typical H Plane (2100MHz)



Typical E Plane (2600MHz)

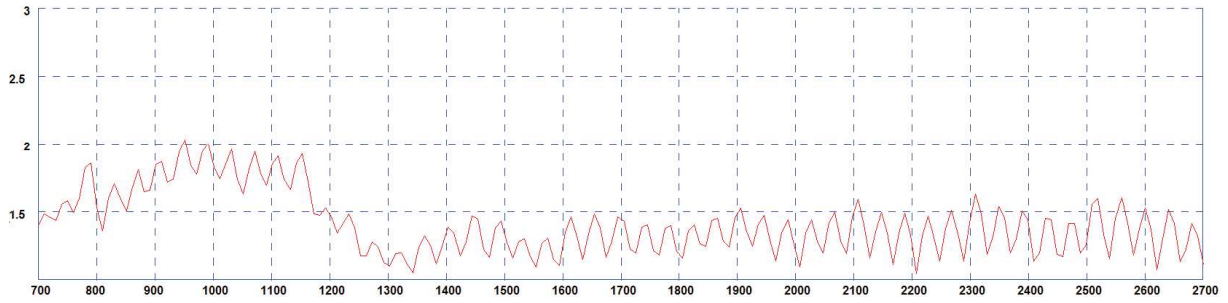


Typical H Plane (2600MHz)



*All simulations conducted in CST Microwave Studio on a 400 x 400mm (16" x 16") groundplane. All measured patterns taken on a 300mm (12") ground plane with 0.5m (1.5') of RG174 cable.

Typical VSWR*



*VSWR measured on a 300mm (12") diameter ground plane with with 2m (6'6") of RG174 cable.

Part No.		IN2213
Electrical Data		
Frequency Range (MHz)	698-960 / 1710-2700	
Operational Band	700/800/900/1800/1900/2100/ 2400/2600	
Peak Gain	698-960 MHz	3dBi
(excluding cable loss)	1710-2170 MHz	5dBi
	2170-2700 MHz	4dBi
Typical VSWR*	<2:1	
Polarisation	Vertical	
Pattern	Omni-directional	
Impedance	50Ω	
Max Input Power (W)	25	
Mechanical Data		
Dimensions (mm)	Height	82 (3.22")
	Diameter	48 (1.89")
Operating Temp (°C)	-40°/+80°C (-40°/176°F)	
Material	UV stable ABS	
Colour	Black	
Mounting Data		
Fixing	Panel mount	
Hole Diameter (mm)	12 (1/2")	
Max Panel Thickness (mm)	9 (0.35")	
Cable & Connector Data		
Cable Type	RG174	
Cable Diameter (mm)	2.8 (0.1")	
Cable Length (m)	5 (17')**	
Termination	R/A FAKRA Jack	

**VSWR measured on a 300mm (12") diameter ground plane with with 2m (6'6") of RG174 cable.

PANORAMA ANTENNAS

Panorama Antennas Ltd
Frogmore, London, SW18 1HF, United Kingdom

T: +44 (0)20 8877 4444

F: +44 (0)20 8877 4477

E: sales@panorama-antennas.com

www.panorama-antennas.com

Waiver: The data given above is indicative of the performance of the product/s under particular conditions and does not imply a guarantee of performance. These specifications are subject to change without notice.

Copyright © Panorama Antennas Ltd. All rights reserved.

www.panorama-antennas.com/