Low Profile IOT Antenna PANORAMA (PANTENNAS

LPWTC-7-27



Low profile, vandal & tamper proof design Simple adhesive pad or screw fix installation Covers global cellular & LTE bands Suitable for mounting on metallic or non metallic surfaces* Ultra slim cable can allow no drill installation through some box seals

The Panorama LPW range of antennas are designed to decrease the lifetime cost of M2M and IOT installations by offering a robust, effective antenna that is easy to install and lasts the lifetime of the installation.

The antenna offers ground-plane independent omni-directional performance across global cellular and LTE bands making it a versatile solution for any number of applications. The efficient element design ensures a high first time connection rate and an ongoing, robust communications link even in problematic coverage areas.

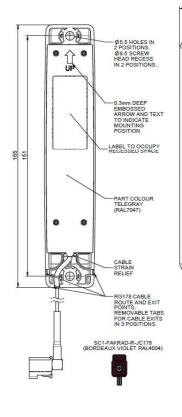
The antenna can be installed using the supplied industry grade adhesive pad or via the integrated screw mounting bosses. If the antenna is panel mounted the cable can be routed through a hole in the adhesive pad to run invisibly into the panel behind. In addition the LPWTC features an ultra slim 1.78mm diameter cable which can permit the cable to run through some enclosure sealing gaskets allowing installation without drilling any holes.

*Perfomance may change based on mounting surface

LPWTC-7-27-1-5FDJ Shown

Technical Drawing

NG CAP OVER NG HOLE. IG CAP[®] LABEL LOCATION 0x0.2mm MAX ESSED SPACE RG178 PTFE COAX CABLE - SEE TABLE FOR LENGTH GREY HEAT SHRINK SLEEVE RIGHT ANGLE FAKRA D JACK FOR RG178 CABLE IN 'BORDEAUX VIOLET'



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Panorama Antennas Ltd

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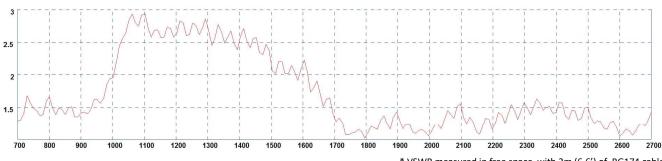
Low Profile IOT Antenna PANORAMA (2) ANTENNAS

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Part No.				
		LPWTC-7-27-1-5FDJ	LPWTC-7-27-1-5SP	
Electrical Data				
Frequency Range (MHz)		698-960, 1710	698-960, 1710-2700	
Operational Band		LTE 700 / LTE 800 / AMPS 850 / GSM 900 / GSM 1800 ,	LTE 700 / LTE 800 / AMPS 850 / GSM 900 / GSM 1800 / PCS 1900 / AWS / 3G UMTS 2100 / LTE 2600	
Typical VSWR		< 2:1	< 2:1	
Typical Peak Gain: Isotropic ⁺		2dBi	2dBi	
Compared to ¼ wave		OdB	OdB	
Pattern		Omni-directio	Omni-directional	
Impedance		50Ω	50Ω	
Max Input Power (W)		20W	20W	
Mechanical Data				
Dimensions (mm)	Height	19.6 (0.77'	")	
	Length	165 (6.5"))	
	Width	32 (1.26"))	
Operating Temp (°C)		-30° / +70°C (-22ºF	-30° / +70°C (-22ºF / 158 ºF)	
Material		ASA	ASA	
Colour		Telegray RAL	Telegray RAL 7047	
Ingress protection		Equivalent to IP66 when p	Equivalent to IP66 when properly installed	
Mounting Data				
Fixing		Industrial grade acrylic adhesive pac	Industrial grade acrylic adhesive pad / 2x 4.8mm (0.18")screws	
Cable Data				
Туре	RG178			
Thickness (mm)		1.78 (0.07	1.78 (0.07")	
Length (m)		1.5 (4' 9")	1.5 (4' 9")	



Right Angle Fakra D Jack



* VSWR measured in free space with 2m (6.6') of RG174 cable

SMA Plug

⁺Peak gain shown simulated in CST microwave studio in free space without cable loss

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Termination

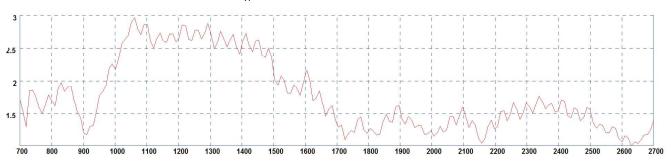


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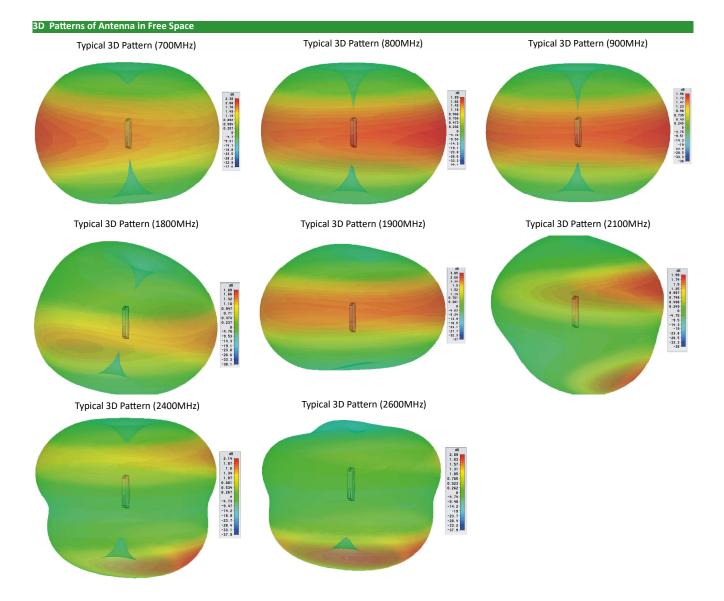
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Typical VSWR on 350 x 350mm Ground Plane*



* VSWR measured mounted on a 350 x 350mm (14" x14") with 2m (6.6') of RG174 cable



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