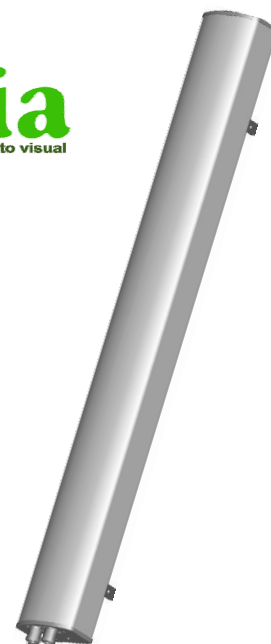


Single-Band (LTE) Panel Antenna for mobile BTS



Features

Frequency bands

· 2300 - 2696 MHz

Variable Electrical Tilt

Wide Electrical Tilt range (4°-14°).

RET

Ready for RET (remote electrical Tilt) configuration.

Accessibility

Easy access to connector, antenna tilt adjusting or RET device at the bottom part.

Minimum size

Minimum weight and size in the market, thanks to fractal technology. It reduces stress due to wind and structural requirements.

Polarization

Cross-polar: +45° and -45° connectors 7/16 type

Anchoring

Clamps and mechanical downtilt for standard mast are available.

Description

TELNET **Singleband (LTE) Panel Antenna** is part of **ENVIA**, a new generation of antennas for mobile phone base stations, whose radiating elements are based on fractal geometry.

The innovative line of panel antennas of TELNET significantly reduces the visual impact as it is possible to mimic the antenna, facilitating their integration into the environment through the simulation of building elements, maintaining the versatility of azimuthal and zenithal adjustments (tilt). In addition, the low size of this family of antennas simplifies the installation and maintenance work. This family of antennas is ready for the addition of a Compact RET (Remote Electrical Tilt).

TELNET panel antenna can be mounted on a traditional mast by anchors and mechanical.

Single-Band (LTE) Panel Antenna for mobile BTS

Family TNA010 - Technical Features

Radio-Electrical	LTE		
Frequency Range	2300 - 2696 MHz		
Polarization	Xpol, +/- 45°		
Gain Max	18,2 dBi		
Gain +/- Av. Dev	17,1 ± 0,3 dBi		
Horizontal Beam width	65,2°		
Vertical Beam width	7°// 6,5°		
Cross Polar Discrimination	Typ 22 dB		
Boresight			
F/B Ratio Copolar (180°+/-30° cone)	> 25 dB		
Side lobe suppression for first side lobe above horizon	20 4°	20 10°	18 dB 14°
Electrical tilt continuously adjustable	4° - 14° (sector independent)		
VSWR	< 1.5:1		
Intra band Isolation	> 30 dB		
Null fill	25 db		
Impedance	50 Ohms		
Max. Power per input	300W		
Inter modulation Products (2*20W)	150dBc		
Prepared for RET	OK		

Mechanical	
Input	2 x 7/16 female
Connectors position	Bottom, 2 (7/16)
Dimensions (HxWxD)	1100 mm x 150mm x 100mm
Weight	6,5 Kg.
Max. speed wind	200 Km/h

Material	
Radome	Fiber glass + polyester
End Caps	Plastic of high resistance for the exterior
Screws and Nuts	Stainless Steel

Environmental and mechanical tests	
IEC 60068-2-2: Dry Heat	UNE-EN 60598-2-3: Resistance to wind
IEC 60068-2-56: Damp Heat Steady State	IEC 60068-2-6: Sine Vibration
IEC 60068-2-30: Damp Heat Cyclic	Particular Specification: Resistance to ice
IEC 60529: IP Code Test	IEC 60068-2-27: Shock Test
IEC 60068-2-64: Random Vibration	IEC 60068-2-32: Free Fall Test
IEC 60068-2-14: Change of Temperature	IEC 60695-2-1/2: Resistance to fire
IEC 60068-2-1: Cold	IEC 60068-2-29: Bump Test
IEC 60068-2-18: Water (Handheld shower)	

Telnet antennas have passed environmental tests recommended in ETS 300 019-2-4, and extensive test recommended by the main operators over the world.

* Technical features may change

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