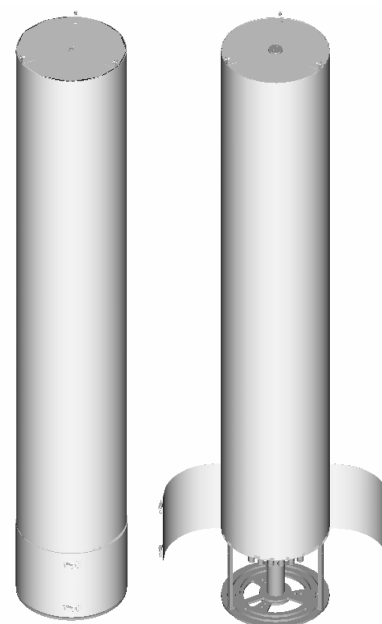


Tri-sector Triple-band (790-960, 2x1710-2170MHz) Compact Antenna

COMPACT ANTENNA

TNA660A00		
Frequency Range (MHz)	790-960	1710-2170
Polarization	$\pm 45^\circ$	$\pm 45^\circ$
Gain (dBi)	16,5	17,2
Electrical Tilt (continuously adjustable)	2 - 10	2 - 10
Horizontal Beamwidth ($^\circ$), -3dB	65,2	56,9
Vertical Beamwidth ($^\circ$), -3dB	8	7
Front to Back Ratio (dB) $180^\circ \pm 30^\circ$	>25	>25
Cross Polar Discrimination (dB) Boresight	>17	>23
Sidelobe suppression (dB) First sidelobe above horizon	17	17
First null fill (dB)	Typ 18	Typ 20
Impedance (Ω)	50	50
VSWR	< 1.5:1	< 1.5:1
Intraband isolation (dB)	> 30	> 30
Interband isolation (dB)	> 30	> 30
Intermodulation IM3 (dBc)	< -150	< -150
Max power per input (W)	300	300
Prepared for RET	YES	YES



Mechanical	
Input	18 x 7/16 female
Position	Bottom, 3x6 (7/16)
Dimensions (mm) (H x \varnothing mm)	2230+300 x 350
Weight (Kg)	77
Max wind speed (Km/h)	200
Azimuth	Full antenna: $\pm 50^\circ$ Per sector: $\pm 0^\circ$

Materials	
Radome	Fiber glass + polyester
End Caps	Stainless Steel
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.