

## Dual-band, Base Station Antenna for TETRA and LTE 800 Bands

### DESCRIPTION

- CXL TETRA/LTE 800C/... is a dual-band 0 dBd, vertically polarized, omnidirectional base station antenna - two bands with only one antenna.
- Great radiation performance for both bands.
- This antenna makes it possible to:
  - operate TETRA and LTE 800 transceivers alternately on the same antenna.
  - operate two transceivers (TETRA and LTE 800) at the same time on one antenna using a diplexer (type PRO-DIPX 520/790-2700-7/16 - must be ordered separately).
- The antenna is provided with our "C" mast bracket, which is a universal, epoxy-coated mounting bracket made of non-corrosive aluminium. The accompanying U-bolts and fittings are made of stainless steel.
- The antenna can be mounted on 27 to 65 mm dia. mast tubes and it is possible to lead the cable either along the inside or on the outside of the mast tube.
- The antenna element is completely enclosed in a glass fibre shroud, which will ensure performance undisturbed by corrosive environments.
- To substantially reduce noise caused by atmospherical discharges, all metal parts in the antenna are DC-grounded. Consequently, the antenna shows a DC-short across the coaxial cable.
- This antenna is constructed to ensure long dependable service in all climates.



### ORDERING

Type	Product No.	Frequency
CXL TETRA/LTE 800C/l	100000558	380 - 410 MHz / 790 - 850 MHz
CXL TETRA/LTE 800C/m	100000546	400 - 430 MHz / 790 - 850 MHz
PRO-DIPX 520/790-2700-N(f)	200002501	
PRO-DIPX 520/790-2700-7/16(f)	200002445	

### SPECIFICATIONS

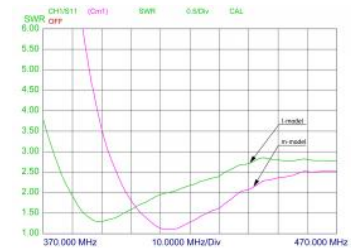
Electrical	
Model	CXL TETRA/LTE 800C/...
Frequency	TETRA: l : 380 - 410 MHz m : 400 - 430 MHz LTE 800: l : 790 - 850 MHz m : 790 - 850 MHz
Antenna Type	Coaxial, dual-band base station antenna
3 dB Beamwidth, H-Plane	Omnidirectional
Polarisation	Vertical
3 dB Beamwidth, E-Plane	80 °
Impedance	50 Ω
Gain	0 dBd (2.2 dBi)
VSWR	< 2.0:1
Maximum Input Power	150 W (for each band)
Bandwidth	TETRA: = 30 MHz @ SWR 2.0 LTE 800: = 60 MHz @ SWR 2.0
Antistatic Protection	All metal parts DC-grounded (Connector shows a DC-short)
HCM Code(s)	l: HCM000ND00, 030DE00 m: HCM000ND00, 040DE00

Mechanical	
Wind Area	0.037 sq. m / 0.40 sq. ft
Connection(s)	N(f)
Materials	Radome : Polyurethane-coated glass fibre Mounting bracket : Seawater resistant aluminium, epoxy-coated
Colour	White (RAL 9003)
Height	950 mm / 37.40 in.
Wind Load	43 N (160km/h)
Weight	2.2 kg / 4.85 lb
Mounting	On 27 - 65 mm dia. mast tube

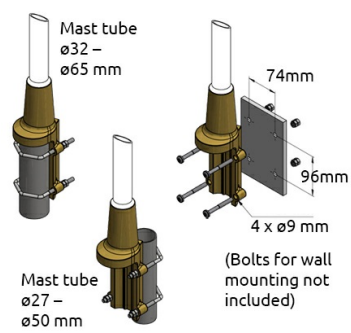
Environmental	
Operating Temperature Range	-30 °C to +70 °C
Survival Wind Speed	200 km/h

DIAGRAM

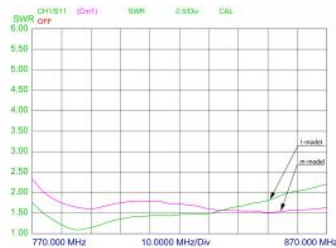
TYPICAL SWR CURVES FOR TETRA



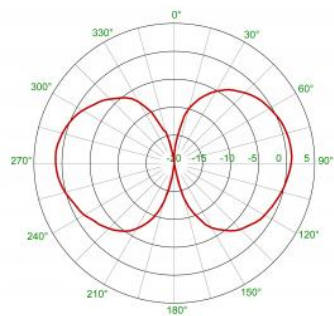
MULTI-PURPOSE MOUNTING BRACKET



TYPICAL SWR CURVES FOR LTE



TYPICAL RADIATION PATTERN (E-PLANE) FOR TETRA



TYPICAL RADIATION PATTERN (E-PLANE) FOR LTE

