

Unity Gain Base Station & Marine 1090 MHz Antenna

DESCRIPTION

- The CXL 1090-1 is a 0 dBd, vertically polarized, omnidirectional rod-type base station and marine antenna covering the 1090 MHz band.
- The 1" revolving nut mounting system is standard throughout the base station and maritime sector. Several different mounting brackets are available, making it possible to install the antenna either on the masthead using FLG or SMR 2, side mounted on the mast (using SMR 1) or mounted on a cross-beam (using FLG). Also, the antenna can also be mounted on deck or rooftop by means of the FLG.
- Especially designed for ADS-B aerial surveillance.
- The higher the antenna is mounted, the better coverage. Avoid mounting the antenna parallel with or in the neighbourhood of other metal parts, such as masts, supporting wires etc., as the SWR and the radiation pattern may otherwise be strongly influenced.
- To substantially reduce noise caused by atmospheric discharges, all metal parts in the antenna are DC-grounded. Consequently, the antenna shows a DC-short across the coaxial cable.
- A conical glass fibre tube completely encloses the carefully designed radiating element to ensure long dependable service in all climates.

SPECIFICATIONS

Electrical	
Model	CXL 1090-1
Frequency	1050 - 1130 MHz
Antenna Type	Coaxial dipole, broad-banded
3 dB Beamwidth, H-Plane	Omnidirectional
Polarisation	Vertical
Pattern Type	Omnidirectional
3 dB Beamwidth, E-Plane	80 °
Impedance	50 Ω
Gain	0 dBd (2.2 dBi)
VSWR	< 1.5:1
Maximum Input Power	100 W
Bandwidth	80 MHz
HCM Code(s)	

Mechanical	
Wind Area	0.0070 sq. m / 0.08 sq. ft
Connection(s)	N(f)
Materials	Shroud: Polyurethane-coated glass fibre Mounting bracket: Chromed brass
Colour	White (RAL 9003)
Height	420 mm / 16.54 in.
Wind Load	9 N (160km/h)
Dia. At Top End	12 mm / 0.47 in.
Weight	0.35 kg / 0.77 lb
Dia. At Bottom End	16 mm / 0.63 in.
Mounting	On 1" RG (G1" - 11) threaded water pipe or on optional mounting brackets (see accessories)

Environmental	
Operating Temperature Range	-30°C to +70°C
Survival Wind Speed	200 km/h
Ingress Protection	IP66

ORDERING

Type	Product No.	Frequency
CXL 1090-1	110000386	1050 - 1130 MHz



DIAGRAM

ACCESSORIES (to be ordered separately)

