

Unity Gain Base Station and 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 atmospherical 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
Max. Input Power	100 W
Polarisation	Vertical
Pattern Type	Omnidirectional
3 dB Beamwidth, E-Plane	80 °
3 dB Beamwidth, H-Plane	Omnidirectional
Impedance	50 Ω
Gain	0 dBd (2.2 dBi)
VSWR	< 1.5:1
Bandwidth	80 MHz
HCM Code(s)	HCM000ND00, 040DE00

Mechanical	
Connection(s)	N(f)
Materials	Shroud: Polyurethane-coated glass fibre Mounting bracket: Chromed brass
Colour	White (RAL 9003)
Wind Area	0.0070 sq. m / 0.08 sq. ft
Wind Load	9 N (160km/h)
Dia. At Top End	12 mm / 0.47 in.
Dia. At Bottom End	16 mm / 0.63 in.
Height	420 mm / 16.54 in.
Weight	0.35 kg / 0.77 lb
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

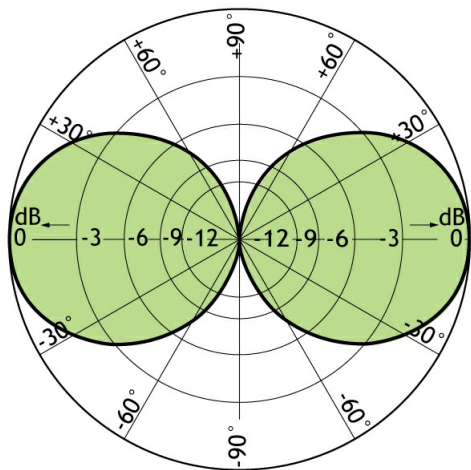
ORDERING

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

ACCESSORIES (TO BE ORDERED SEPARATELY)

FLG G1"-11 (1" RG)	SMR 1 G1"-11 (1" RG)	SMR 2 G1"-11 (1" RG)	YA-Bracket ø17
LW-SS-1" G1"-11 (1" RG)	MariFix 1 1"-14 UNS ALSO NEED ADT	MariFix 2 1"-14 UNS ALSO NEED ADT	ADT G1"-11 (1" RG) 1"-14 UNS

TYPICAL RADIATION PATTERN (E-PLANE)



TYPICAL RADIATION PATTERN (H-PLANE)

