

Quadruple-Band Base Station and Marine Antenna for the 900 MHz, 1800 MHz, 1900 MHz and the 2000 MHz

DESCRIPTION

- Quadruple-Band base station and marine antenna – four bands with only one antenna.
- Covering both GSM/NMT-900, DCS-1800/PCN (GSM 900/1800), PCS-1900 and UMTS.
- Particularly suitable for use with triple-band mobile phones.
- Unity gain on all bands.
- Wide variety of accessory mounting brackets available.
- The carefully designed, broad-banded antenna element is sealed in a high-quality, conical glass fibre tube with low wind-load, which will ensure performance undisturbed by corrosive environments.
- Provided with the sturdy “LW” mast mount – a lightweight, multipurpose, epoxy-coated mounting bracket made of non-corrosive aluminium.
- The cable can be led either on the outside or along the inside of the mast tube.
- Large bandwidth with respect to both VSWR and gain.
- 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.
- The CXL 900/1800/1900/UMTS/LW is a vibration-proof, lightweight, slimline, corrosion resistant, modern style base station and marine antenna.



SPECIFICATIONS

| Electrical | |
|-------------------------|---|
| Model | CXL 900/1800/1900/UMTS/LW |
| Frequency | 800 - 960 MHz/1710 - 1880 MHz/ 1850 - 1990 MHz/1900 - 2200 MHz (GSM 900/DCS-1800/PCS-1900/UMTS) |
| Antenna Type | Quadruple-Band base station and marine antenna |
| Max. Input Power | 100 W |
| Polarisation | Vertical |
| 3 dB Beamwidth, E-Plane | 80 ° |
| 3 dB Beamwidth, H-Plane | Omnidirectional |
| Impedance | 50 Ω |
| Gain | -2.2 dBd (0 dBi) |
| VSWR | GSM @ ≤ 2.0:1 DCS-1800 @ ≤ 2.0:1 PCS-1900 @ ≤ 3.0:1 UMTS @ ≤ 3.0:1 |
| Antistatic Protection | All metal parts DC-grounded (Connector shows a DC-short) |
| HCM Code(s) | HCM000ND00, 030DE00 |

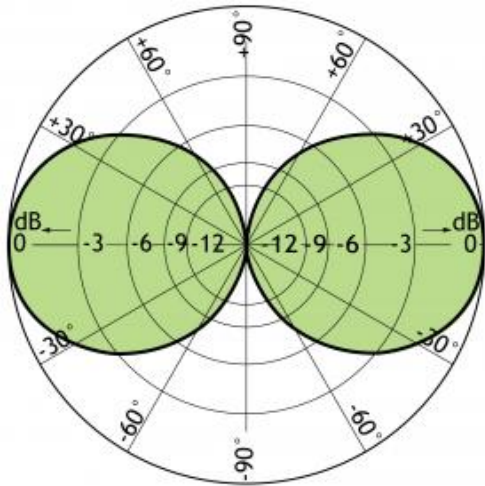
| Mechanical | |
|--------------------|---|
| Connection(s) | N(f) |
| Materials | Shroud : Polyurethane-coated glass fibre Mounting bracket : Seawater resistant aluminium, epoxy-coated Clamps : Stainless steel |
| Colour | White (RAL 9003) |
| Wind Area | 0.018 sq. m / 0.19 sq. ft |
| Wind Load | 23 N (160 km/h) |
| Dia. At Top End | 21 mm / 0.83 in. |
| Dia. At Bottom End | 23 mm / 0.91 in. |
| Height | Approx. 500 mm / 19.69 in. |
| Weight | Approx. 0.6 kg / 1.32 lb. |
| Mounting | On 16 to 54 mm / 0.63 to 2.13 in. dia. mast tube |

| Environmental | |
|-----------------------------|------------------|
| Operating temperature range | -30 °C to +70 °C |
| Survival Wind Speed | 200 km/h |

ORDERING

| Model | Product No. |
|---------------------------|-------------|
| CXL 900/1800/1900/UMTS/LW | 110000229 |

TYPICAL RADIATION PATTERN (E-PLANE)



TYPICAL RADIATION PATTERN (H-PLANE)



MULTI-PURPOSE MOUNTING BRACKET

