

**C2SAT**

## C2SAT 1.2m Ku II

### RELIABLE SATELLITE COMMUNICATION

Unpredicted dynamic weather conditions calls for a specific kind of maritime VSAT that is robust and above all, reliable for those requiring constant always on communication, without loss of signal.

C2SAT have designed a new reflector solution for the Ku-band built on its innovative and proven 4-axes technology. The features and characteristics of the new C2SAT 1.2m Ku II addresses many of the most sought-after functions of a maritime VSAT antenna of today, such as Automatic Beam Switching, Remote Operation & Maintenance and Improved Flexibility.

C2SAT has its focus set on customer needs and the new C2SAT 1.2m Ku II offers an extended selection of variants catering for customer and coverage area specific requirements. The new RF-solution is specially designed to accommodate both Cross pol and Co pol technology to separate between transmit and receive frequencies and is now even more resilient to harsh maritime environments than the previous versions.

### AUTOMATIC BEAM SWITCHING

With C2SAT Automatic Beam Switching (ABS), features are made available off shore that you have been used to enjoy while on shore only. The internet traffic will automatically be transferred to the satellite link when moving from one coverage area to the next adjacent. This will give the crew a secure link for business communication as well as entertainment - independent of location and environment.

Apart from delivering a secure internet connection to the vessel, the ABS feature also adds cost savings and operational benefits to the service provider. Some of the most important are listed below:

- Eliminates expensive and time consuming onboard reconfiguration of the VSAT system
- By taking away the need for manual configuration changes the risk for human errors is removed
- The need for external support from hub personnel is minimised by pre-configured coverage areas and selection of satellite and data signal
- Change of satellite is seamless for the user resulting in improved Uptime

C2SAT ABS is supported through the iDirect OpenAMIP protocol.

### REMOTE OPERATION & MAINTENANCE

C2SAT understands that advanced maritime communication operators need comprehensive means to remotely Operate and Maintain the Stabilised Antennas. C2SAT 1.2m Ku II takes functionality for remote management to the next level and includes:



### REMOTE MONITORING:

- Remotely available error logs for troubleshooting enabling support teams to prepare before entering the vessel. This will result in greater possibility for successful incident rectification as well as limiting the time onboard for all support and maintenance activities
- Real time Supervision capabilities with direct access to performance statistics for follow up and action

Remote Management is implemented with SNMP or Uplogix™ for full flexibility.

### REMOTE CONFIGURATION & CONTROL:

- Encrypted roll based access control using SSH for efficient management of access needs
- Complete access to C2SAT Antenna System configuration and Control tools via web browser
- Download of new Software to the C2SAT Stabilised Antenna System

### IMPROVED FLEXIBILITY

C2SAT focus on customer needs and therefore the new C2SAT 1.2m Ku II delivers an extended selection of variants catering for customer and coverage area specific requirements. The following standard options are available:

- Cross polarisation
- Co polarisation
- LNA/BDC
- LNB
- Rejection filter solutions for harsh maritime environments

**C2SAT - Reliable Satellite Communication, even during harsh conditions and heavy seas.**

## C2SAT 1.2m Ku II (Standard Configuration)

FEATURES	SPECIFICATION DATA
Stabilisation Type	4-axes gimbals. AC servo low inertia belt drive.
Reflector Diameter	1.2 m (47")
Radome Size	D: 2.1 m (82,7") H: 2.4 m (94,5")
Weight incl Radome	350 kg (772 lbs) excl AC. AC 63 kg (139 lbs)
Frequencies	Rx: 10.95 – 12.75 GHz Tx: 13.75 – 14.5 GHz
Antenna Type	Prime Focus
Antenna Gain	Rx: 40.5 dBi min at mid band Tx: 42.8 dBi min at mid band
Sidelobe Envelope	29-25 log ( $\Theta$ )
Cross Polarisation	Tx: > 35 dB within 1dB envelope
Signal Polarisation	Linear Cross polar /Co polar
Dynamic Accuracy	0,05 degrees RMS
Antenna Movement, azimuth	Continuous, unlimited (slipping)
Antenna Movement, polarisation	$\pm 120^\circ$
G/T (@ 20° elevation, typical)	19 dB/K
Ship Motion	$\pm 30^\circ$ per 10 s in pitch, roll and yaw
BUC Power	BUC Power 4W to 25W, Other BUC sizes on request
GPS Antenna	Built in
Radar Rejection 9,6 GHz	>80 dB

C2SAT distributes its products through established solution providers and system integrators. Please do not hesitate to contact one of the distributors presented on [www.C2SAT.com/Distributors](http://www.C2SAT.com/Distributors) for a quotation.



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**Reliable Satellite Communication**

4-AXES ENABLES HIGH SPEED AND ACCURACY