

C2SAT is distributing its products via established solution providers and system integrators.

Please do not hesitate to contact one of the distributors presented on www.C2SAT.com/Distributors for a quotation.



C2SAT

Reliable Satellite Communication

C2SAT



C2SAT 1.2m Ku



C2SAT 1.2m Ku-4M



C2SAT 2.4m C

AXTM Stabilised VSAT

4 Axes Enables High Speed and Accuracy

4-AXES ENABLES HIGH SPEED AND ACCURACY

www.C2SAT.com

C2SAT provides stabilised VSAT antennas based on it's innovative 4-axes technology



C2SAT 1.2m Ku

C2SAT Products

The C2SAT standard rig, which is used for both the standard 1.2m Ku and the 2.4m C, is designed to accommodate reflector sizes up to 2.4 meter on all frequency bands.

C2SAT 1.2m Ku

The C2SAT 1.2m Ku is the standard 4-axes marine stabilised VSAT antenna compatible with Ku-band satellites. Standard reflector diameter is 1.2 m (47").

C2SAT 1.2m Ku-4M

The C2SAT 4-axes mini VSAT model features less than 100 kg stabilisation robot providing the same performance as the full size C2SAT 1.2m Ku version. Standard reflector diameter is 1.2 (47").

C2SAT 2.4m C

The C2SAT 2.4m C is the standard 4-axes marine stabilised VSAT antenna compatible with C-band satellites. Standard reflector diameter is 2.4m (94").

Reliable Satellite Communication

High elevation problems are experienced with traditional 3-axes systems and occurs in a wide belt around the equator when a vessel rolls back and forth and the satellite is close to zenith. The problem is provoking loss of signal, restarts and down-time.

The 4-axes solution designed by C2SAT allows the RF equipment to move freely and to maintain an optimal position towards the satellite without big and sudden movements even during harsh conditions and heavy seas. The 4-axes system does not experience dead angles and does therefore not experience any high-elevation problems.

The high reliability makes the C2SAT antennas suitable for use as main connection point as the system can carry large volumes of information without interruption. C2SAT gradient tracking system identifies and finds any selected satellite within 6 seconds. DVB or DVB-S2 identification is optional.

Better Accuracy

The system achieves superbly high tracking accuracy (only a loss of $\pm 0,1$ dB), comparable to a fixed antenna. C2SAT prefers to use the more accurate tracking accuracy to measure performance instead of commonly used pointing accuracy, mainly because it includes both the losses due to pointing and the polarisation misalignments. The high tracking accuracy is a result of the C2SAT gradient tracking method, a predetermined tracking parameter and the 4-axes design, where the fourth axis refers to the cross-level elevation. Higher accuracy results in:

- improved availability
- more efficient use of shared lines and network bandwidth
- wider operational area in the satellite footprint.

Faster System

The system is faster due to the gimbal design with AC servo-motors on each axis, and the C2SAT gradient satellite tracking method on all axes. The system locks on the satellite within 6 seconds acquisition time, starting from its parking position. This speeds up the transition from one satellite to another and results in extremely fast recovery from sync loss.

Robust System

Because the gimbal design excludes the balancing counter-weight usually necessary in centre pole-based systems, the servo motors on the axes are subjected to less torque. This also leads to lower stress on the mechanical rig, which means reduced maintenance costs and less down-time.

Simple To Service And Maintain

Simple service and maintenance is inherent to the mechanical design.

All In One System

C2SAT's 4-axes stabilised antenna system provides real two-way broadband satellite communication, making full utilisation of the available bandwidth possible. The system permits always on services such as monitoring services, SCADA via web-clients, Wi-Fi, Internet, E-mail, Voice over IP, Skype, GSM on board, ATM, Credit Card validation, video monitoring, video conferences, video telephony, all simultaneously in one system.



A specially designed radome for C2SAT 1.2m Ku and C2SAT 1.2m Ku-4M offers only 0,3 dB attenuation. Space in the radome is sufficient to accommodate an air-condition device, for heat exchange and to keep condense water a minimum.



A specially designed radome for C2SAT 2.4m C offers only 0,3 dB attenuation.



An easy to use graphical user interface (GUI) is provided which an operator with no previous satellite experience can operate.



C2SAT 2.4m C