

C2SAT

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 for a quotation.



C2SAT

Reliable Satellite Communication



C2SAT 2.4m C

C2SAT 1.2m Ku II

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 Products

The C2SAT 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 II

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 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 6-8 seconds. DVB or DVB-S2 identification is optional.

Simple To Service And Maintain

Simple service and maintenance is inherent to the mechanical design.



C2SAT 1.2m Ku II



C2SAT 2.4m C

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 value of tracking accuracy to measure performance instead of pointing accuracy, because it includes both losses due to pointing and polarisation misalignments. The high tracking accuracy is a result of the C2SAT gradient tracking method, a predetermination 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 servomotors on each axis, and the C2SAT gradient satellite tracking method on all axes. The system locks on the satellite within 6-8 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 counterweight 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.

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 offers only 0,3 dB attenuation. The radome is based on a sandwich construction and designed to withstand wind speeds up to 55 m/sec.



A specially designed radome for C2SAT 1.2m Ku 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.