Thrane & Thrane

TT-3026L/M eCTrack

Features

- Integrated Inmarsat-C/GPS System
- Extremely low power consumption
- Ideal for Tracking, SCADA and E-mail applications
- Input/Output control ports accessible from remote applications, e.g. Capsat® Manager 3.5
- Built-In advanced Sleep Mode functionality.
- Built-In Vehicle/Vessel Monitoring Software
- Approved for Land Mobile and Maritime applications.

Description

The TT-3026L/M eCTrack system is the 4th generation Inmarsat-C system from Thrane & Thrane A/S.

eCTrack offers global data communication via the Inmarsat-C Satellite Network, and supports all Inmarsat-C services including E-mail, position reporting & polling, fax, telex, x.25 and mobile to mobile.

The extremely compact design and power conserving features of eCTrack, makes it very attractive for use in AVL, VMS, SCADA and E-mail applications. It ensures fast and reliable transfer of vital information, i.e. position reporting, data monitoring, messaging, loading and unloading information, route planning, etc.

The Input/Output control ports of eCTrack can easily be connected to remote sensors, relays or switches. All input and output ports can be controlled from the Capsat® Manager 3.5.

eCTrack features an advanced Sleep Mode function, which will reduce the typical total power consumption to between 11 mW and 288 mW depending on the reporting interval.

Whether the application is global Tracking, SCADA or Internet E-mail, eCTrack will be the ultimate choice.

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Specifications

General Specifications:
Meets or exceeds current and proposed INMARSAT specifications for mini-C Land Mobil Earth Station (LPMES) and mini-C Ship Earth Station (LPSES).

Internal Antenna:
Inmarsat-C/GPS omnidirectional antenna. RHC polarized.
G/T – 23.7dB/K & EIRP 7 dBW at 5° elevation.
Coverage + 90° - -15°.

Operating Frequencies:
Receive 1525.0 - 1545.0 MHz, Transmit 1626.5 - 1646.5 MHz. GPS 1575.42 MHz.

Channel Spacing:
2.5 / 5 kHz.

Modulation:
600 and 1200 symbols/s. BPSK.

Data Rate:
Tx 300 and 600 bit/s, Rx 600bit/s.

Terminal Interface:
RS-232 w. hardware flow control. 4800 - 115000 Baud. VT-100 mode.
I/O Port: 6 user configurable 3.3 V I/O's (5 V tolerant). Each open collector output sink 25 mA.

Solid State Storage:
512k x 16 bit Flash, 256k x 16 bit SRAM.

Internal GPS:
12- Channels. 1 sec update rate. 15 m RMS accuracy.

Power Source:
10.5 - 32 V floating DC

Power Consumption:
RX 1.8W / TX 23 W (12V DC supply)

Power Output:
3.3V DC /100mA, output for terminal equipment

Sleep Mode:
Power supply 12VDC, timer and event programmable modes, reporting interval vs typical total power consumption:
15 minutes / 288 mW
30 minutes / 148 mW,
1 hour / 78 mW,
2 hour / 43 mW,
5 hour / 25 mW,
10 hour / 16 mW,
24 hour / 11 mW.

Ambient Temperature:
-35° to 55° operating -40° to 80° storage.

Solar Radiation:
Maximum flux density: 1200W/m2.

Rain:
100mm/hour, droplet size 0.5 to 4.5mm, wind speed as below.

Wind:
Relative wind up to 200km/ hr.

Velocity:
Max velocity up to 140km/ hr.

Vibration Operational:
Random 5-20Hz 0.005g2/Hz, 20 - 150 Hz -3dB/oct.(0.5g rms).

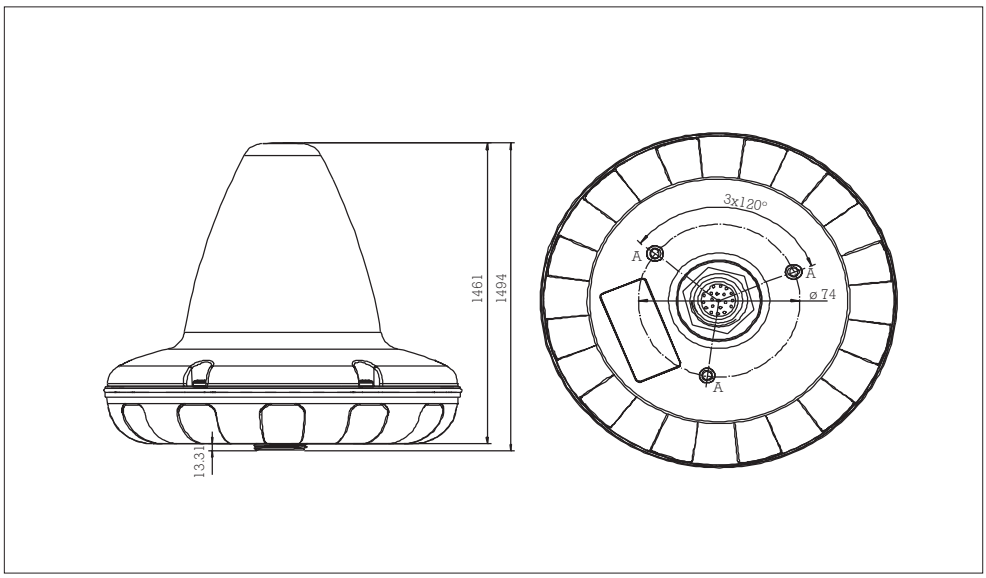
Shock:
Survival half sine 20g/11ms.

Mounting Options:
Standard 1.5" tube, or 3 bolts on flat surface with 30mm hole for cable.

Dimension:
Ø: 163mm, H: 146.2

Weight:
1.1 Kg

Our products are under continuous research and development. This information may therefore change without prior notice. Capsat is a registered trademark of Thrane & Thrane A/S, Denmark.



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