cygnus

Thuraya T2M-Dual

Mobility. Versatility. Reliability. Efficiency.

This is Thuraya T2M-Dual

By making processes more flexible, more affordable, and less labor-intensive, the T2M-Dual minimizes the physical distance challenges and complex operational challenges faced by energy workers between HQ and remote sites. Its dual-mode coverage offers auto-switching and an auto-data capture between Satellite and GSM networks, enabling operators to always stay connected and make smarter decisions towards driving operational efficiency.

Built to withstand harsh environmental conditions, while delivering actionable data directly to you, the T2M-dual will keep your energy operations smooth sailing. From hydro and environmental management to oil & gas SCADA and pipeline monitoring the T2M-Dual ensures an unrivaled total cost of ownership, and an unmatched choice of transmission to meet communicational requirements over 3G GSM or Satellite- allowing your operations to benefit from the efficiencies of digitized automation.

Product Features

Dual use
Track fixed or mobile assets

Dual-mode coverage
Dual-mode auto-switching between Thuraya's satellite M2M network and partner GSM networks allows for seamless, always-on coverage

Choice of transmission
Unmatched choice of transmission to meet any use case communicate over 3G GSM or Satellite: Messaging, GmPRS IP Data, Circuit Switched 9.6 kbps data

Mobile fleet tracking
Track and manage vehicles and assets across borders, to ensure remote asset safety and efficiency

Operational efficiency
With the ability to gauge and continually monitor events, T2M-DUAL helps operators make smarter decisions to drive operational efficiency

Low total cost of ownership
Cost-effective data plans with a data pooling option, giving peace of mind with predictable costs

Location
Know the exact location of all your assets with built-in navigation systems supporting: GPS, Galileo, Glonass and Beidou navigation systems

OTA
Over-the-air command and control SDK and Protocol support

The smart tracking terminal
to digitize your operations.

Energy

Key uses

Fleet management; Rail tracking; Oil & Gas, SCADA and Pipeline monitoring; Smart grid and smart metering applications;

Security, surveillance and tracking; Weather station monitoring; Hydro and environmental management

General Specifications

Size (mm)	133(W) x 103(L) x 39.8(H)	Unit: mm
Weight	395 g 1.35 kg	T2M – DUAL terminal Including accessories
Operating Temperature	-30 °C ~ +70 °C -20 °C ~ +60 °C	Excluding backup battery Including backup battery
Battery Capacity	3000 mAh	Li-ion
Storage Temperature	-40 °C ~ +85 °C	
Vibration	Random 5~20Hz 0.05g2/Hz, 20~150Hz: - 3dB/oct.(1.7g rms), 3-axis, 30minutes for each axis.	
Thermal Shock	-40 °C (1H) / +85 °C (1H), 1 cycle Total 24 Cylce, 48H, non-operating	
Humidity	+70 °C / 95% / 48 Hours, Operating	

Terminal Specifications

Communication Modem	SAT 3G	Thuraya SM-2700 3G Data Modem	Support Thuraya Satellite Network Support Band I, Band V, Band VII
GNSS	Chipset TTFF	UBLOX-M8030 Cold Stat : 26sec Hot Start : 1sec	Support multi-GNSS: GPS, Beidou, Glonass, Galileo
Ingress Protection	> IP66		
Operating Voltage	+10 Vdc ~ +34 Vdc		
I/O Connector	26 Pin	Waterproof connector	
Interfaces	CANbus protocol (J1939) User programmable CAN configuration 4 Digital Input/ Output 2 Analog ADC Data Input 2 Serial RS232 Port 1-Wire Communication		

Terminal Specs

SIM Slot	SAT: Mini SIM GSM: Micro SIM	
LED	4 LEDs	Power, SAT, GSM, GPS
Additional	DIP Switch Reset Button	Set vehicle voltage Reset terminal

Antenna

SAT & GPS Antenna	Frequency	1525Mhz ~ 1660.5 Mhz (SAT)
	Impedance	50Ω
	Polarization	LHCP (SAT) / RHCP(GPS)
	Axial Ratio	< 4dB
	Gain	>5dBic@peak
	Size	110 (D) x 42(H)
	Connector	SAT: SMA(F), Gold color GPS: SMA(F), Silver color
	Ingress Protection	IP67
	Mounting	Magnetic Mounting Plate Mounting
3G Antenna	Type Beam Pattern Impedance	Basic: Internal Multi-Band Antenna Optional: External Multi-Band Antenna Omni-Directional 50Ω

+971 (4) 435 6800
info@cygnus.co | www.cygnus.co

THURAYA
SPACE42