

Thuraya t2m

TRACKING & MONITORING



Mobility. Versatility. Reliability. Efficiency

Our current pace of development requires the constant support of ever-evolving technology. As industries and organizations extend the potential of existing markets and tap into new ones, the need to collect and manage data seamlessly becomes more prevalent. Tracking and monitoring assets, especially mobile assets located across changing points, has traditionally been a complex process. However, as operations delve further into remote territories, it is increasingly vital to rely on solutions that are simpler, flexible, more affordable and less labor-intensive.

The T2M-DUAL terminal (Thuraya Tracking and Monitoring) addresses these challenges with robust IoT communications capabilities. The terminal allows smarter, more streamlined and automated data capture over both satellite and GSM networks. The T2M-DUAL's automated network mode selection is determined by least cost routing which ensures unrivaled total cost of ownership. T2M-DUAL facilitates actionable data delivery right to the operator or manager, thereby improving asset performance and driving process efficiency. The terminal is built to withstand harsh environmental conditions, vibration and shock.

Quick, extensive and resilient tracking

T2M-DUAL is an end-to-end solution which enables the simultaneous collection of data from multiple points and sources including location information, data from external sensors and peripheral devices, and input gathered from vehicle or heavy equipment CANbus.

The terminal's robust system and interoperability renders it a top-class solution for wide-scale, often mobile operations in sectors like transportation, government, energy and utilities, agriculture and mining.



Key benefits

Dual-mode coverage

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

Fleet tracking and safety

Track and manage vehicles and assets across distances and borders, to ensure remote asset safety and efficiency during high-risk operations.

Reduce consumption

With the ability to gauge and continually study the consumption of resources like fuel and route optimization, T2M-DUAL helps operators make smarter, cost-saving decisions.

Low total cost of ownership

Cost effective M2M messaging and data plans to address tracking and monitoring applications with varying intervals and data transmission requirements.

Geofencing

Create virtual boundaries to protect assets and trigger a perimeter response.

System features

- Location: Know the exact location of all your assets with built-in GPS, Galileo, Glonass, and Beidou navigation systems
- Sensor data: Integrate sensors to enable real-time condition monitoring of assets including temperature, pressure, humidity, vibration and wear
- Dispatch/Receive: Automate the receiving and dispatching of assets through peripheral devices and screens
- Usage history: Track the usage history of assets, including movement and engine hours
- Maintenance: Ensure assets are routinely inspected and maintained, and data is readily available
- Network Selection: Two-way Satellite and GSM communications that support 5

Communication modes:

- SAT Preferred mode
- SAT messaging only mode
- SAT messaging and packet mode

Examples of applications supported by T2M-DUAL

- Fleet management
- Rail tracking
- Oil and Gas SCADA and pipeline monitoring
- Smart Grid and smart metering applications

GSM only mode

GSM preferred mode

- Security, surveillance
- and tracking
- Thuraya m2m

Specifications

Terminal specifications

General specs			
Item		Specification	Descriptions
Size (mm)		133(W) x 103(L) x 39.8(H)	Unit: mm
Weight		395 g	T2M – DUAL terminal
		1.35 kg	Including accessories
Operating Temperature		-30 °C ~ +70 °C	Excluding backup battery
Battery Capacity		-20 C ~ +00 C	Li-ion
Storage Temperature		-40 °C ~ +85 °C	
Vibration		Random 5~20Hz 0.05g2/Hz, 20~150Hz: - 3dB/oct.(1.7g rms),	
Thermal Shock		3-axis, 30minutes for each axis. -40 °C (1H) / +85 °C (1H), 1 cycle Total 24 Cylce, 48H, non-operating	
Humidity		+70 °C / 95% / 48 Hours. Operating	
Terminal Specs			
Company	SAT	Thurava SM-2700	Support Thurava Satallita Matwork
Lommunicati	3G	3G Data Modem	Support Band I, Band V. Band VII
WOGEIII	Chincot		Support multi-GNSS:
GNSS	Chipset	Cold Stat : 26sec	
	TTFF	Hot Start : 1sec	GPS, Beldou, 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	
SIM Slot		SAT: Mini SIM GSM: Micro SIM	
LED		4 LEDs	Power, SAT, GSM, GPS
Additional		DIP Switch	Set vehicle voltage
		Reset Button	Reset terminal
Antenna			
SAT & GPS Antenna	Frequency Impedance Polarization Axial Ratio Gain Size Connector	1325WIIZ ~ 160U.5 MIRZ (SAT) 50Ω LHCP (SAT) / RHCP(GPS) < 4dB >5dBic@peak 110 (D) x 42(H) SAT: SMA(F), Gold color	
	Ingress Protection Mounting	GPS: SMA(F), Silver color IP67 Magnetic Mounting Plate Mounting	
3G Antenna Type Basic: Internal Multi-Band Antenna Beam Pattern Optional: External Multi-Band Antenna Impedance 50Ω		ina	

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Thuraya coverage map



