



Thuraya FT2225









Real-time, secure, two-way communications.

This is Thuraya FT2225

A high-performance satellite terminal allows you to better coordinate your assets in real-time through tracking and monitoring field sensors, which in turn yields better results. By utilizing a highly secure, robust IP-based, two-way communication network, you'll be able to receive dependable, instant IP-based machine-to-machine (M2M) communications.

Manage your remote workers, monitor field safety, control your maintenance and operational costs, and effectively integrate your field operations with back-office services. Highly flexible and adaptable, the FT2225 comes equipped with onboard memory to help you load local applications, specific to your mining operational needs, including embedded GPS and GLONASS navigation systems. Its ruggedized design is built to withstand shock, vibrations, and other harsh weather conditions and hazards on mining sites.

Product Features

-  **IP-based networking**
-  **Interface agnostic with Ethernet and Wi-Fi and support for USB, serial, Modbus, CanBUS**
-  **Two-way send/receive connectivity**
-  **Multicast and Broadcast capability enabling efficient mass polling and message distribution**
-  **Low-latency for instant message transfer and real-time monitoring with no delays**
-  **Ruggedized highly reliable terminals for operation in harsh weather conditions**
-  **Low Total cost of ownership with bandwidth-efficient networking and no minimum billing increment or overhead charges**
-  **Embedded GPS and GLONASS**



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SATELLITE COMMUNICATION	
TWO-WAY COMMUNICATIONS	
Narrowband IP	UDP and TCP/IP supported
Frequency Band	TX 1626.5 to 1675.0 MHz R X 1518.0 to 1559.0 MHz Typical latency <2 sec 100 bytes
Transmission Security	Link encryption AES-256
INTERFACES	
GNSS	GPS + GLONASS (L1 frequency)
EXTERNAL INTERFACES	
Power	10 to 32 VDC, via multi-pin connector, short circuit and surge protection
Wi-Fi	IEEE 802.11 B/G, 2.4 GHz
External interfaces that can be supported	Ethernet, Serial, CAN Bus, Modbus and USB 2.0 Via multi-pin connector
MECHANICAL	
Size	(L x W x H) 178 x 130 x 42 mm
Weight	<900g
ENVIRONMENTAL	
Solar Radiation	1120 W/m ² p per IEC-60068-2-5
Relative Humidity	Up to 100% condensing at 45° C, per IEC 60068-2-30
Ingress Protection	IP66 dust and spray proof in all directions
Wind Speeds	Up to 200 km/hr
Air Pressure Transport	4500 m AMSL

TEMPERATURE	
Operational	-40° to +71° C
Transport	-40° to +85° C
Storage	-40° to +85° C
VIBRATION	
Operational	Random vibration of 1.05 g rms in each of three mutually perpendicular axes 5 to 20 Hz vibration: 0.02 g ² /Hz 20 to 150 Hz vibration: -3 dB/octave
Survival	Transportation vibs per IEC 60068-2-64 Frequency 5 to 200 Hz ASD 1.0 m ² /s ³
SHOCK	
Operational	IEC 60068-2-64, 50 m/s ² , 11 ms
Survival	Transportation shock per IEC 60068-2-29, A = 180 m/s ² , t = 6 mS
CERTIFICATIONS	
CE	Per R&TTE Directive 1999/5/EC, Low Voltage Directive 2006/95/EC
FCC	Title 47 Section 15, Title 47 Section 25
RCM	AS/NZS CISPR 22:2009 Safety IEC/EN/AS/NZS 60950-1, IEC/EN/AS/NZS 60950-22
RoHS	Per European Union Council Directive 2011/65/EU
REACH	Per European Union Council Directive 1907/2006/EC
WEEE	Per European Union Council Directive 2012/19/EU

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