



Thuraya FT2225









Real-time, secure, two-way communications.

This is Thuraya FT2225

An M2M terminal offering real-time sensors for monitoring, management, and live-reporting via Thuraya's satellites. The FT-2225 allows you to remotely access and manage field devices, remote terminal units, and sensors such as gas valves, smart grid sensors, water pumps, and reservoir level indicators in real-time. By utilizing a highly secure, robust IP-based, two-way communication network, you'll be able to receive real-time communications, detect and immediately prevent any operational problems.

With capabilities such as wellhead monitoring, cathodic protection, flowmeters, chemical or water injection, security, and asset monitoring, you can effectively manage your remote energy operations. The FT2225 is highly flexible and adaptable, coming equipped with onboard memory to help you load local applications, specific to your operational requirements. With a ruggedized design built to withstand harsh weather conditions, you can be assured that your energy operations will run smoothly.

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**

Monitoring, tracking, and
real-time live reporting.

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 vibrate 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