

# THURAYA FT2225 M2M



Real-time, secure, two-way  
communications for your M2M  
applications

## REAL-TIME, SECURED, TWO-WAY COMMUNICATIONS

REAL-TIME  
MONITORING,  
MANAGEMENT  
AND CONTROL  
REMOTE ASSETS AND  
OPERATIONS

## RUGGED TERMINAL BUILT TO WITHSTAND HARSH WEATHER CONDITIONS

## GPS & GLONASS EMBEDDED

## IP-BASED NETWORKING

## LOW LATENCY FOR INSTANT MESSAGE TRANSFER AND REAL- TIME MONITORING WITH NO DELAYS

## AES 256 ENCRYPTION

## EASY TO DEPLOY SIMPLE & TIME EFFICIENT

## LOW TOTAL COST OF OWNERSHIP WITH BANDWIDTH EFFICIENT NETWORKING

## NO MINIMUM BILLING INCREMENT

Learn more on  
[iec-telecom.com](http://iec-telecom.com)



## EFFECTIVE AND RELIABLE CONNECTIVITY RESILIENT TO HARSH WEATHER CONDITIONS

The new Thuraya FT2225 is a rugged M2M terminal built to withstand harsh weather conditions in remote unmanned areas.

The Thuraya M2M service is powered by the VMS technology developed in partnership with Viasat Inc. to provide reliable L-band connectivity, and produce dependable performance.

The Thuraya FT2225 is based on an efficient bandwidth utilization, low latency IP networking and AES256 encryption to enable secure, real-time remote monitoring and communications.

This terminal has built in GPS and GLONASS capability which enables highest accuracy and security in all regions. With Ethernet and Wi-Fi interface options, integration into M2M applications is very simple.

### KEY FEATURES

- **Dimensions:** 178 x 130 x 42 mm
- **Weight:** < 900g

### SATELLITE COMMUNICATIONS

- **Narrowband IP:** UDP and TCP/IP supported
- **Frequency Band**  
TX 1626.5 to 1675.0 MHz  
RX 1518.0 to 1559.0 MHz  
Typical latency <2 sec 100 bytes
- **Transmission Security:** Link encryption AES-256

### INTERFACES

**GNSS:** GPS + GLONASS

### 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

### ENVIRONMENTAL

#### Temperature

- **Operational:** -40° to +71° C
- **Transport:** -40° to +85° C
- **Storage:** -40° to +85° C
- **Solar Radiation:** 1120 W/m<sup>2</sup> p per IEC-60068-2-5
- **Relative Humidity:** Up to 100% condensing at 45° C, per IEC 60068-2-30
- **Ingress Protection:** IP66
- **Wind Speeds:** Up to 200 km/hr
- **Air Pressure Transport:** 4500 m AMSL

#### Vibration

- **Operational:** Random vibration of 1.05 g rms in each of three mutually perpendicular axes  
5 to 20 Hz 0.02 g<sup>2</sup>/Hz Vibration  
20 to 150 Hz -3 dB/octave Vibration
- **Survival:** Transportation vibrate per IEC 60068-2-64  
Frequency 5 to 200 Hz  
ASD 1.0 m<sup>2</sup>/s<sup>3</sup>

#### Shock

- **Operational:** IEC 60068-2-64, 50 m/s<sup>2</sup>, 11 ms
- **Survival:** Transportation shock per IEC 60068-2-29, A = 180 m/s<sup>2</sup>, t = 6 ms

**CERTIFICATIONS:** CE, FCC, RMC, RoHS, REACH, WEEE



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