The Internet of Things connects local and remote areas, through fixed and mobile platforms, enabling operational efficiencies for critical applications. IP-based services extend or augment cellular coverage to improve the quality of communications between people and between machines. Meshing communications technologies with embedded monitoring sensors in mission-critical systems optimizes production or delivery efficiencies by reducing equipment downtime.

**REAL-TIME ASSET MANAGEMENT AND TRACKING**

Viasat L-band Managed Service for fixed and mobile M2M applications provide real-time position tracking, management of remote assets and operations, and visibility into critical areas of the supply chain. The Viasat High Performance M2M Terminal FT2225 supports a broad range of applications including SCADA, warning systems, point of sales, monitoring oil, water or gas flow through pipelines, and more.

**RELIABLE AND AFFORDABLE SATELLITE CONNECTIVITY**

Viasat services offer reliable network connectivity, even in harsh weather conditions, and bring dependable performance to locations where existing wireless and terrestrial systems are overloaded or inoperable. The terminal relies on remarkably efficient bandwidth usage, low-latency IP networking, and optimized power consumption, to make real-time remote monitoring and communications more affordable than ever. The terminal includes embedded, beyond-line-of-sight voice connectivity, enabling direct communications between remote locations and with control nodes.

With an IP-based network architecture and multiple wired and wireless interfaces, the Viasat terminal easily integrates with your existing M2M system to support any real-time remote monitoring and control application.

**TWO-WAY SECURE NETWORKING FOR SCADA**

For SCADA or intelligent infrastructure management, the system’s two-way networking capability enables both real-time monitoring and real-time control. Field devices can instantly be assessed and adjusted remotely; such as gas valves, smart grid sensors, water pumps, and reservoir level indicators. In addition, the services provide cybersecurity protection by using the same encryption as commercial Virtual Private Network routers.

Viasat managed services deliver reliable, affordable connectivity, regardless of the infrastructure or environment, to manage assets and real-time information to quickly respond to events.
SPECIFICATIONS

GENERAL
- Antenna Polarization: RHCP & LHCP, software configurable
- Frequency Band:
  - TX: 1626.5 to 1675.0 MHz
  - RX: 1518.0 to 1559.0 MHz
- Transmission Security:
  - Link Encryption: AES-256
- GNSS: GPS + GLONASS

EXTERNAL INTERFACES
- Power: 10 to 32 VDC, via multi-pin connector
- Bluetooth: 4.0
- Wi-Fi: IEEE 802.11 B/G, 2.4 GHz
- Ethernet and Serial:
  - Ethernet and USB 2.0
  - Via multi-pin connector
- GNSS: L1 frequency

MECHANICAL
- Size (L x W x H): 178 x 130 x 42 mm
- Weight: <1 kg

ENVIRONMENTAL
- Temperature:
  - Operational: -40° to +71° C
  - Transport: -40° to +85° C
  - Storage: -40° to +85° C
- Solar Radiation: 1120 W/m² p per IEC-60068-2-5
- Relative Humidity: Up to 100% condensing at 45° C, per IEC 60068-2-30

ENVIRONMENTAL (CONTINUED)
- Ingress Protection: IP 66 dust and spray proof in all directions
- Wind: 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 Vibration
    - 20 to 150 Hz Vibration
  - Survival: Transportation vibe per IEC 60068-2-64
    - Frequency: 5 to 200 Hz
    - ASD: 1.0 m²/s³
- Shock:
  - Operational: IEC 60068-2-64, 50 m/s², 11 ms
  - Survival: Transportation shock per IEC 60068-2-29, A = 180 m/s², t = 6 mS

REGULATORY APPROVALS
- FCC: Title 47 Section 15, Title 47 Section 25
- RCM: AS/NZS CISPR 22:2009

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