

TAM-242

Satellite Terminal

The TAM-242 satellite terminal from Honeywell Global Tracking allows users to track and monitor fixed and mobile assets such as trailers, containers, tanks and railcars, anywhere in the world. This slimline solution requires no external power source, as the standard internal battery will provide at least one month of maintenance-free operation (depending on reporting intervals).

The flexible TAM-242 generates highly accurate GPS position reports, sends secure position logs and offers configurable reporting intervals and remote polling.

Like many of Honeywell Global Tracking's terminals, the TAM-242 uses the Inmarsat constellation of satellites and the IsatM2M standard. This connectivity method offers an affordable and reliable direct-to-desktop information service with fast and easy-to-use message handling.

In addition to using fixed mounting points, the TAM-242 incorporates strong magnetic feet, making it possible for users to quickly install and de-install the device, without damaging any asset surfaces.

The TAM-242 satellite terminal can be connected to a number of optional sensors, collecting a wide range of data for applications like cargo container intrusion detection (e.g., temperature, humidity, vibration, and shock) and vehicle fleet usage patterns (e.g. speed, braking, fuel consumption, and tire pressure).

When the TAM-242 is delivered with external sensors and cables, the solution is referred to as the TAM-252.



Features

- **Global Coverage:** Offers secure satellite connectivity worldwide
- **Always Connected:** Tracks and monitors mobile assets anywhere
- **Affordable and Reliable:** Field-proven and cost-effective tracking solution for a wide range of applications
- **Flexible Mapping:** Facilitates viewing of assets using Google and Bing maps in a standard browser, or integrates data feeds into custom enterprise resource planning (ERP) solutions
- **Easy Installation:** Can be installed permanently using screws, or temporarily using built-in magnetic feet
- **Multiple I/O Ports:** Connected external sensors can report additional data, e.g., speed, tire pressure and fuel consumption; ideal for fleet management applications
- **Optional Alert Button:** Convenient in-vehicle button allows drivers to immediately warn others of dangers
- **Optional Sensors (TAM-252):** Enables advanced intrusion detection solutions for cargo containers; sensors include temperature, humidity, shock, vibration, and light

TAM-242 Technical Specifications

Physical	
Dimensions	247 mm x 178 mm x 48 mm (9.7" x 7.0" x 1.9")
Weight	1.5 kg (3.3 lbs)
Mounting	Screws, magnetic feet
Environmental	
Operating Temperature	-35°C to +55°C (-31°F to +131°F) Charging temp: 0°C to +45°C (32°F to +113°F)
Humidity	≤95% @ +40°C (+104°F) non-condensing
IP Rating	IP66
Interfaces	
Serial Interface	Asynchronous serial RS232
Baud Rate	9600 bps
Parity/Data Bits/Stop Bits	N, 8, 1
Satellite Connectivity	
Transmitter	EIRP: 0-9dBW Modulation 2 level FSK: 20 Hz tone spacing Tx burst duration: 2s or 8s
Receiver	G/T: ≥-25dB/K at EL = 30° Modulation: 32-ary FSK, 20Hz tone spacing
Elevation Angle	0° - 90°
Frequency Range	Transmit: 1626.5-1660.5 MHz Receive: 1525.0-1559.0 MHz GPS: 1575.42 ± 1.0 MHz
GPS	Channels: 50 Typical time to first fix: Cold Start: <29 seconds Hot Start <1s (GPS was off for less than 2 hours) Typical position accuracy (SA Off): 2.5m (8ft) (CEP, 2D) Dynamic capability: Velocity 515 m/s maximum Acceleration ≤4g Maximum update rate 1s
External Sensors	
TAM-252 Solution	TAM-252 external sensor solution includes: Remote terminal with a range of wired sensor options: temperature, humidity, vibration, shock, light, door open etc. A satellite airtime package to suit your needs Secure web-based data access SATTAG Version 3 interface to DISA GEX/IRRIS/iSDDC A range of power supplies

For more information:

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TAM-242 DS Rev A 12/11
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