

TAM-212L

Satellite Terminal

The battery-powered TAM-212L satellite terminal from Honeywell Global Tracking allows tracking and monitoring of fixed and mobile assets such as trailers, containers, tanks and railcars, even in the most remote and hostile places in the world.

Once an asset has been equipped with a TAM-212L and deployed in the field, the terminal automatically selects the most appropriate satellite and regularly transmits its location and any additional message data via secure systems.

This slimline solution requires no external power source as an internal lithium-battery will provide up to five years of maintenance-free operation.

Like many of Honeywell Global Tracking's terminals, the TAM-212L uses the Inmarsat constellation of satellites and the IsatM2M standard. This connectivity method delivers 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-212L incorporates strong magnetic feet, making it possible for users to quickly install and de-install the device without damaging any asset surfaces.



Features

- **Global Coverage:** Offers secure satellite connectivity worldwide
- **Always Connected:** Tracks and monitors mobile assets at any time, anywhere in the world
- **Long-lasting Battery:** Offers up to five years of maintenance-free operation.
- **Programmable Reporting Rates:** The reporting rate may be changed by sending an over the air command, making it possible to significantly extend battery life
- **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
- **Multiple I/O Ports:** May be connected to external sensors to report additional data, e.g. temperature, pressure, humidity, panic button, and tamper alarm

TAM-212L 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)
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
Configurable Input/Output	Digital input/digital output Analogue input, 0-2.5 V, 12 bit resolution
Satellite Connectivity	
Transmitter	EIRP: 0-9dBW Modulation 2 level FSK: 256 Hz tone spacing Tx burst duration: 2s or 8s
Receiver	G/T: ≥-25dB/K at EL = 30° Modulation: 32-ary FSK, 256Hz 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 (CEP, 2D) Dynamic capability: Velocity 515 m/s maximum Acceleration ≤4g Maximum update rate 1s
Battery Life	
Available Reporting Rates (With Corresponding Script)	Typical battery life in weeks at 20° C. (Battery lifetime will be reduced when operating in low temperatures.)
30 min (script 230)	30
1 hr (script 231)	56
2 hrs (script 229)	97
4 hrs (script 232)	153
6 hrs (script 233)	189
12 hrs (script 234)	247
24 hrs (script 235)	292
Connector Pin Assignment	
4	IN/OUT 1
6	IN/OUT 3
8	RX – RS232
9	TX – RS232
1, 3, 10	Ground

For more information:

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