



Titan Trakker

Asset Tracking Device—Titan's Trakker combines global positioning Iridium Satellite L-Band communication technology, microprocessor power and internal/external power source into a single brick-sized device utilizing the Iridium Satellite Systems 24/7 global coverage. Titan Trakker provides a universal mobile satellite geographic position data solution with complete global coverage (including oceans, airways and polar regions).

The Trakker is Completely Configurable—Simply connect the device to any desktop PC, laptop, or Personal Digital Assistance (PDA) via serial cable. Then launch a Hyper-Terminal session and the Trakker will automatically generate an intuitive menu allowing configuration of device operations and components.

- Tranceiver transmit interval
 - Time
 - Delta Distance
- Global Positioning System (GPS)
 - Position Deployment
 - Upload/Download GPS Almanac
- Password
- Mission Date
 - Brevity Code
 - Container ID
 - Transponder ID
- Cryptography
 - Enable/Disable
 - Load Key
 - Zeroize

FEATURES

- Integrated Iridium 24/7 Global Communications Module provides data transfer via Short Burst Data (SBD) service
- Integrated Global Positioning System Receiver (GPS)
- MilSpec Connectors for Serial Communication and Power
- Data Encryption capable (employing the Advanced Encryption Standard)
- Internal and external power, including integrated microchargers for charging internal batteries.
- Configurable via any hyper terminal capable computer
- User-configured position containing ID, date, time, lat/long, altitude, and user defined codes; reporting periodicity configured by time and/or distance traveled
 - Employs the Iridium Short Burst Data (SBD) capability



Physical Characteristics

Dimensions

9.25" L x 4.00" W x 2.50" H

Weight

Less than 4 lbs with Antennas

Internal Battery Power

10 Rechargeable AA NiMH

Batteries 2250 mAh ea.

External Power Input

11-30 Vdc

Performance Characteristics

Operating Platform

µC/OS_11 REal Tie Kernel

Memory

512K (2 x 256 K) Flash ROM

Status LEDs

Three LEDs providing multiple colors for status indication of GPS status and solution, Iridium status, signal strength and registration and communication success/failure. Also used to provide error detection and troubleshooting

User Environment

Temperature

Operating: -10° C to + 50° C

Humidity

5% to 95% RH, Non-condensing

Integrated Components

Communications

Iridium 9522 L-Band Transceiver Module

Z-World LP3500 Fox single board computer, featuring Z-World's Low-EMI Rabbit 3000

Global Positioning System

Trimble Lassen SQ GPS Module, 8-channel

Integrated Battery Charger

Charges internal batteries while connected to external power source

Physical Connectors

Iridium Antenna

TNC

GPS Antenna

SMA

Serial Programming Port

MilSpec [RS-232]

External DC Input Port

MilSpec



TITAN

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