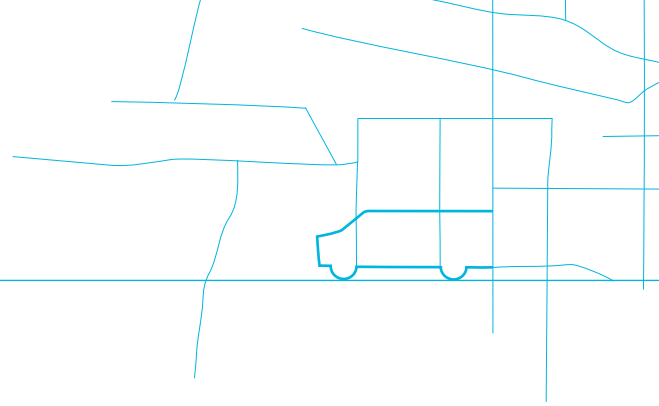




PRODUCT SPECIFICATION

SATELLITE DATA TERMINAL 5000



- Power Management Modes for All Environments
- Enterprise-Quality, Industrial-Rated
- North American Coverage
- Satellite Packet Data Service

The Wireless Matrix Satellite Data Terminal 5000 (SDT 5000) modem is part of a wireless data communications network specifically tailored to address the needs of the North American Telemetry market. Utilizing the Wireless Matrix ISPD service, this satellite modem ensures remote data access across North America. The SDT 5000 is fully integrated and pre-configured for seamless operation with Wireless Matrix's Wide Area Wireless network or can be integrated into your solution. The modem is rugged, weatherproof and easy to install. The SDT 5000 modem operates from nine to 22 VDC and features multiple operational modes. Its low power consumption enables deployment at solar powered locations for maximum flexibility.

OPTIONS

Wireless Packet Data Network

- Seamless nationwide coverage
- 4 second connect time
- 6.75 kbps raw data rate
- Geosynchronous L-Band satellite
- Host and Remote-originated data communications

Multiple Operational Modes

- Continuous, Standby, Polled, Sleep

Host Connectivity

- Frame Relay
- Leased Line
- Dial up
- Satellite
- VPN over Internet
- TCP/IP, UDP/IP

Input/Output Features

- One 9-Wire RS-232 RTU Port
- One 3-Wire RS-232 Test/Configuration Port
- Two Digital Alarm Inputs
- One Low-side and One High-side Output (200 mA each)
- One Analog Input (+0.1V to +5V)
- RSSI Analog Output
- One Power Enable line (Ignition CAN HS)

Certifications

- FCC/IC
- UL/CSA
- Class 1, Div 2 Hazardous Location Groups C and D

MODEM

Physical Characteristics

- Overall dimensions: 13" x 8" x 2.5"
- Weight: 9 lbs.
- Integrated antenna
- Accepts 3/4" NPT Conduit Fittings

Standard Features

- Remote Configuration via the Satellite Network
- Scheduled Wakeups & Messaging
- Local Configuration via the Test Port

Optional Features

- RS422/485
- Ethernet
- 32KB Nonvolatile Memory

Environmental

- Temperature range: -40°C to +75°C
- Weather resistant package
- Class 1 Div 2 certified with standard options

Power Options

- Operating Voltage: 9 to 22 VDC
- Low power consumption
 - 200 uA Sleep mode
 - <20 mA Stand-by
 - 100 mA Receive
 - 1.7A typ Transmit/Receive

Other

- Built-in interface for external alarm and control circuits
- Buffers up to 32KB of messages
- Optional 32KB non-Volatile message buffer
- Optional optical link (requires link translator at host site)

- RTU port accepts data input in Standby mode, wakes up the unit and forwards the message to the user's host
- Multiple RTU interface protocols
 - Narrowband Protocol
 - Transparent Mode
 - AT Command Set
 - PPP (WAWI / XIP) Sleep mode: 10 - 70 mA



WIRELESS
MATRIX

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