PDT-100

SATELLITE PACKET DATA TERMINAL

SPECIFICATIONS

APPLICATIONS
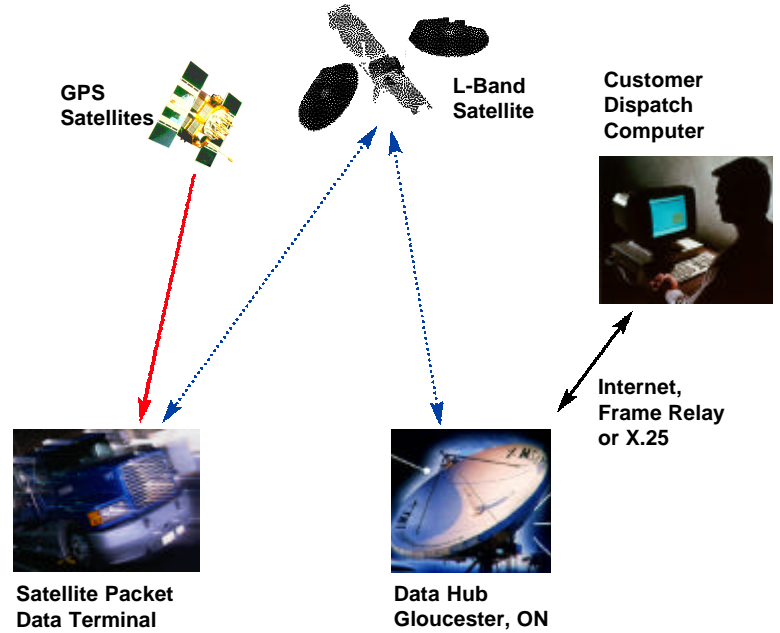
Tracking
- position reporting
- road and zone adherence
- ETA estimates (e.g. couriers)
- asset tracking

Messaging
- dispatch communications
- real-time transaction records
- e-mail (crew benefit)

Monitoring
- engine health
- reefer status
- theft alarm (motion, door, etc.)

GPS
- lat/long
- time - GMT
- velocity
- heading

Satellite Coverage Area

SYSTEM BLOCK DIAGRAM

GPS Satellites

L-Band Satellite

Customer Dispatch Computer

Internet, Frame Relay or X.25

Satellite Packet Data Terminal

Data Hub Gloucester, ON

Specifications

Power

Input Voltage	9Vdc-16Vdc, nom per SAE JI455
Receive Mode	3W (250mA)
Transmit Mode	48W for 0.5s, 10% duty cycle (4A at 12Vdc)

Interfaces

Communications	RS-232, GSM 07.05
Mounting	3-point mount
RF	L-band (1.5GHz - 1.7GHz)

GPS

Accuracy	± 30m
Channels	12
Data Format	NMEA 0183

Physical Characteristics

Weight	3 lbs
Size	7.8" diameter x 5.8" high

Environmental Specifications (partial list)

Operating Temperature	-40°C to +50°C
Storage Temperature	-55°C to +85°C
Other environmental specifications	In accordance with SAE J1455

Model Number: PDT-100

PDT-100

SATELLITE PACKET DATA TERMINAL

The PDT-100 Satellite Packet Data Terminal is an affordable two-way data communications radio for all your tracking, monitoring and messaging needs, anywhere, anytime. Timely information reduces operating expenses, improves service, aids driver satisfaction and increases competitiveness.

The terminal has an interactive two-way messaging mode that allows real time messages to be sent by either the terminal or a host computer. It also supports Broadcast Messaging Mode which can be used to broadcast messages to all radios within pre-defined groups simultaneously. The PDT-100 exploits the many inherent advantages of geostationary satellite communications and creates a new exciting option for fleet management.

Innovative packaging has enabled the omni-directional antenna, the GPS and all the radio circuitry to be housed in one small 3lb enclosure. With no moving parts, this satellite terminal will not suffer from mechanical wear making it highly reliable.

Satellite

Communications

Solutions

... at an

affordable

price.

The interface to the PDT-100 is the industry standard GSM Short Messaging Service (SMS). This allows customers to define and develop their own applications as their needs evolve. Alternatively, off the shelf applications provided by the **LoadTrak™** solution can be used with the PDT-100.

The versatility and flexibility of the Satellite Packet Data Terminal coupled with its low equipment cost, low operating cost, satellite technology benefits and high reliability are sure to quickly translate to improved profitability and customer satisfaction.

Features:

· all-in-one packaging

· L-band satellite technology

· coverage includes all of North & Central America, extending 250 miles off the coast

· built-in GPS

· lightweight: less than 3 lbs

· discrete inputs and outputs for monitoring applications

· no moving parts for maximum reliability

· RS-232 connection to optional DTE

· GSM industry standard API supports existing applications and DTEs

· affordable Packet Data Solution

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