

PDT-100

SATELLITE PACKET DATA TERMINAL



Satellite
Communications
Solutions
... at an
affordable
price

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 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.

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 are available for fleet management applications.

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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SATELLITE PACKET DATA TERMINAL SPECIFICATIONS

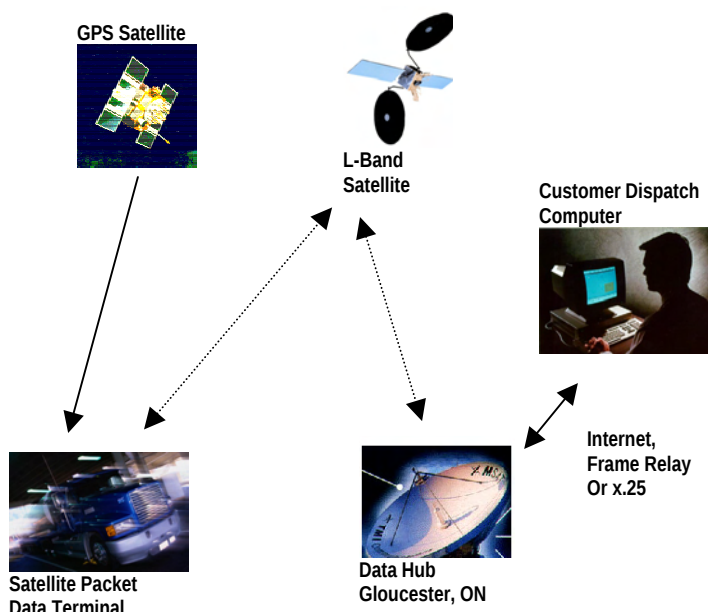
APPLICATIONS

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



Specifications

Power

Input Voltage	9Vdc-16Vdc, nom per SAE J1455
Receive Mode	3W (250mA) 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 Temp.	-40°C to +50°C
Storage Temp.	-55°C to +85°C
Other environmental Specifications	In accordance with SAE J1455

Model Number: PDT-100

These specifications are subject to change without notice. Printed in Canada 08/01.