AVL

Mobile Data, AVL & Mapping

PYRAMID
COMMUNICATIONS
Since 1990

Track with Confidence

3012 **MDT**

MILEAGE REPORTING

5 GENERAL PURPOSE INPUTS

CARD READER & PRINTER CAPABILITIES

TEXT MESSAGING

MOTOTRBO™ & NEXEDGE™ COMPATIBLE

▲ **Designed for Two-Way radio**

▲ **Supports analog conventional, trunking and digital radio systems**

▲ **Up to 240 Character Text Messaging (6x40) backlit display**

▲ **1024 Position non-volatile GPS memory**

▲ **Programmable Status Keys**

▲ **5 General purpose inputs**

▲ **Credit card reader and thermal printer**

3012 MDT Mobile Data Terminal AVL Fleet Tracker

The 3012 is a ruggedized **dual microprocessor** controlled Mobile Data Terminal. The 3012 features 10 user programmable **soft status keys**, up to 240 character **text messaging display**, five **universal inputs** for automating vehicle status, **optional accessories** including a 16 channel GPS receiver, credit card reader and thermal printer.

Automatic Vehicle Location

The 3012 is available with **optional 16 channel internal GPS Receiver** (analog only). Capable of cold start acquisition in less than one minute and warm start of less than 15 seconds for **fast GPS position fix**. GPS **updates are programmable** for starts, stops, turns, over speed limit, and timed interval.

The 3012 is able to **retain the most recent** 1024 GPS position fixes in **non-volatile** E^2 PROM memory. The most recent 100 positions may be **sent over the air** (analog only) and 1024 **may be extracted** via serial connection. **Advanced queuing features** allow for storing and sending location fixes in groups to **conserve radio system airtime**.

Flexible I/O

The **five inputs** may be attached to status tags, which **update the event status** determined by input state and are PC programmable for status 1–9, GPS on Demand™ or Emergency.

Mileage Reporting

Logs accumulated mileage to send to Street Smarts. Within Street Smarts, users can be **alerted when maintenance is due** on a vehicle **or run maintenance reports** on the fleet (analog only).

Credit Card Authorization

Track 1 credit card reader and thermal printer are available for **secure payment transactions**. Credit Card transactions are processed through the Authorize.net payment gateway. Customers may **retain existing merchant accounts** while adding **128-bit encrypted mobile credit card transactions** via the 3012.

Digital Radio Compatible

Seamless connectivity to Motorola MOTOTRBO™ and Kenwood NEXEDGE™ mobile radios, mobile radios provide GPS, while 3012 provides status messaging, text messaging and credit card processing.

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General:

Operation:	19 Key; 10 status, 7 function, emergency and cursor keys.
Display:	8 x 40 character high contrast back lit LCD.
Text Messaging:	248 messages up to 240 characters each.
Interface:	Audio, RS232 or 5V TTL: DB9M
	Printer Port: DB9F
	GPS Antenna: SMA female
Application:	Conventional and trunking mobiles.

Power Requirements:

DC Supply:	13.6 VDC negative ground ±25%
	400 mA nominal.

Physical:

Dimension:	8.0" L x 4.5" H x 1.7" D
Weight:	2 lbs.
Case:	Extruded Aluminum
Keyboard:	19 Key snap dome sealed membrane type.

Encoder:

Format:	MPT-1317[1] MSK 1200 Baud
PTT Delay:	0.1 - 2.5 Sec in 100 mSec steps plus Smart Trunking access
Tx Audio:	0 - 2.5V RMS 2.2K Ohms, AC coupled
Tx Data Out:	9600 N81 RS232 or 5V TTL level

Decoder:

Format:	MPT-1317[1] MSK 1200 Baud
Rx Audio:	100 K Ohm AC coupled to discriminator
Level:	20mV – 10V RMS
Rx Data In:	9600 N81 RS232 or 5V TTL level

I/O:

Outputs:	PTT, audio mute, channel change, horn honk
Inputs:	5 programmable inputs for status, GPS on demand or emergency
Printer:	Thermal printer 48 character/line 10 lines/sec
Credit Card Reader:	Manual swipe ISO7811 Track I (IATA)
GPS:	16 channel 1575 MHz NMEA 0183 RMC

Mil-Std-810D/E Ratings

501.2	Procedure II	High Temp +60°C
502.3	Procedure II	Low Temp -30°C
514.3	Procedure I	Vibration, Ground Vehicle Category 8
516.3	Procedure I	Shock

1 Code of practice for transmission of digital information over Land Mobile Radio Systems, Dept. of Trade and Industry, April 1981. Specifications subject to change without notice.

Thermal Printer
9200-96-7212

Credit Card Reader
9200-01-1111

16 Channel GPS Receiver
9205-09-0128