

3012 MDT

MILEAGE REPORTING

5 GENERAL PURPOSE INPUTS

CARD READER & PRINTER CAPABILITIES

TEXT MESSAGING

DRIVER TIME CARD

- ▲ Designed for Two-Way radio
- ▲ Supports analog conventional and trunking radio systems
- ▲ 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**, 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**. 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 E²PROM** memory. The most recent 100 positions may be **sent over the air** 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 Platinum. Within Street Smarts Platinum, users can be **alerted when maintenance is due** on a vehicle **or run maintenance reports** on the fleet.

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.

Driver Time Card

Manage driver **clock in/out** and **hours worked** to **eliminate overtime abuse** and **reduce vehicle maintenance costs**.

Specifications 3012 MDT



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 $\pm 25\%$
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-1317¹ 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-1317¹ 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

