

# RV-DT-8R (Preliminary)

UHF Modem  
2 Watt Radio

The RV-DT-8R Mobile Data Terminal (MDT) is optimized for GPS tracking, RFID, and two-way data communications with operators.

One-button quick status reporting allow operators to quickly and safely report status. Built in RFID tag reader allows the unit to report the RFID tag codes of the operator, RFID of assets and other items requiring RFID tracking related to RFI tagged contents in a vehicle or at a location

The RV-DT-8R connects to a Raveon data radio modem to communicate information back to dispatchers, command centers, or other vehicles.



## Preliminary Product Overview

### Large Text Display

A large backlit 4-line by 24 character display is easy to read in a moving vehicle. The MDT has a button to dim the display at night. The MDT support the unicode character set. Extended ASCII ISO8859-1

### Extended ASCII Characters

The MDT text display supports extended ASCII ISO8859-1 characters.

### One Button Status



The MDT has a row of one-button status bits. Users may assign application-specific mean to each of them. LEDs above each button indicate active status. Every time a Raveon GPS transponder reports its position, it will also report all 8 status conditions if the MDT is connected to the GPS transponder.

### Two Digit Event Codes

The operator of the MDT can also enter a two-digit event code that will be transmitted by the Raveon radio. This is useful in quickly conveying the occurrence of certain events.

### Rugged

The MDT is built in a rugged ABS enclosure. Utilizing a mount that is compatible with the RAM

brand of mounts, it is easy to mount in a vehicle, and it is dustproof.

### RFID Option

To identify the operator of the MDT or the vehicle it is in, the MDT has a Radio Frequency ID (RFID) tag reader option that can read common RFID tags and key FOBs.

When the operator holds the RFID key fob near the RFID reader, the text display on the MDT will display the ID and the MDT will transmit the ID over the Raveon radio. Raveon has an application called RavTrack PC that can display the tag to an operator or dispatcher, identify the person, and respond to valid and invalid tags accordingly.

### Integrated digital I/O

The MDT has 4 digital inputs and 4 digital output that may be read and manipulated. When connected to a Raveon data radio modem, the digital outputs may be remotely controlled, and the digital inputs may be configured to manipulate the one button status codes 1-4.

### RavTrack PC Compatible

Raveon.'s GPS tracking application supports sending text messages. A system operator/dispatcher/commander can use RavTrack PC to enter a text message, choose the radio mdoem to send it to, and the MDT connected to the modem will display the text message. Messages may be broadcast to groups. Operators may manually confirm they received the message.

By pressing the √ or X button, operators may confirm the received the text message, but accept or decline it.

## General Specifications

**Model:**

*RV-DT-8*      *Standard unit*  
*RV-DT-8R*     *Standard unit, with RFID*

**Size:**

186m X 131mm X 20mm

**Weight:**

7 oz

**Input Voltage:**

10-30V DC

**Power Consumption:**

<100mA at 12.0V input

**Serial Port Baud Rates (programmable)**

1.2k, 2.4k, 4.8k, 9.6k, 19.2k, 38.4k, 57.6k, 115.2k  
 Standard: 38400

**Over-the-air baud rates (programmable)**

-N 1200, 2000, 2400, 4.8k, 5142, 8K,9.6k  
 -W 1200, 2000, 2400, 4.8k, 8k, 9.6k, 19.2k

**Full Spec Operating Temperature range**

-30°C to +60°C

**LCD Viewable Operating Temperature range**

-0°C to +50°C

## Interface Specifications

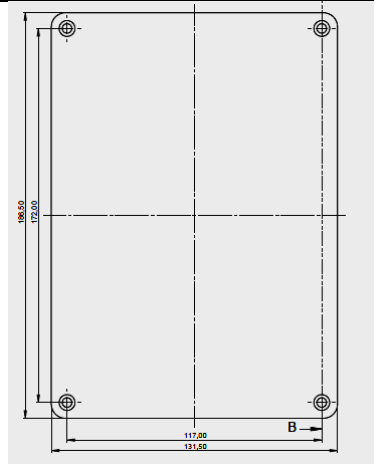
Asynchronous serial data

RFID

4 digital General Purpose Input/Output (GPIO)

The I/O connector is a 20-pin header, 2mm pin spacing.

Pin #	Function	I/O	Function
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			



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*RV-DT-8* Datasheet

Version A1