



## The Wireless Edge

Optimize fleet communications with  
unique data & signaling products

- *Innovative Management Products*
- *GPS Tracking*
- *Vehicle Messaging*
- *Dispatch and Mapping Software*
- *Credit Card Processing*

Mobile Data Products



# Making Advanced Performance Accessible

*Motorola two-way radios are the tools today's smart professionals use to stay at the top of their game. Whether they are a general contractor on a busy construction site, a freight dispatcher organizing a series of Just-In-Time deliveries, or a fire chief coordinating the containment of a brush fire, they're all striving to be the best at what they do.*



*It is precisely for these individuals that Motorola has developed mobile data products, peripheral devices and software systems. Each of these unique products has been designed to take advantage of the myriad of sophisticated capabilities present in the latest Motorola two-way mobile radios.*

*All Motorola wireless data products have been fully tested and certified by Motorola for use with:*

- The "Professional Series" CDM radios
- Conventional LTR™ and Passport™ applications

## MOBILE STATUS TERMINAL WITH OPTIONAL GPS



Mobile Status Terminal  
RDN7365A



Mobile Status Terminal  
with GPS RDN7366

The RDN7365A is an advanced Mobile Status Terminal (MST) featuring 14 "real" backlit user programmable keys. The device provides the capability to automatically report a "status" message to the dispatcher through one of the front panel keys. Messages can have "numerics" entered and associated with the activation, e.g. zone number, dollar amount. Each status activation is "real time" stamped.

The housing is a rugged "industrial" enclosure, sealed from harsh environmental conditions. Radio ready compatible cables are available in 3 or 15-foot lengths.

External interfaces are available for GPS automatic vehicle location, credit card reader, mobile printer, engine management and auto status registration sensors.

The MST's integral high-speed data modem is designed for connection to conventional, repeaters, trunking or any voice grade system. All transmissions are automatic using the exclusive QUADTEC™ process, which takes control of message management, provides true acknowledgments, retries and out of radio coverage memory.

The RDN7366 adds an external GPS automatic vehicle location unit. With its advanced tracking algorithms, the device reports on polled, timed or exception, and returns position, velocity, health, event log and time.

Both models are compatible with the base software package, (RDN7378A), supporting single or multiple channel dispatch, automatic vehicle location, mapping, status tracking and reporting.



## MOBILE DISPLAY AND STATUS TERMINAL WITH OPTIONAL GPS



Mobile Display Status Terminal *RDN7368*



Mobile Display Status Terminal with GPS *RDN7367A*

The Mobile Display and Status Terminal (MDT) features intelligent messaging capabilities compatible with either conventional or trunking radio systems. Featuring a backlit 4 x 40 high temperature display together with 14 "real" backlit user programmable silicone rubber keys, the MDT is offers a host of advanced properties including menus and work order processing. The unit will also display text messages and will automatically transmit a "status" report to the dispatcher when one of the front panel keys is activated. Each such activation is "real time" stamped and can have "numerics" associated with the message, e.g. zone number, dollar amount.

The MDT features an integral modem for direct radio interface. All transmissions are automatic using the exclusive QUADTEC™ process, which takes control of message management, provides true acknowledgments, retries and out of radio coverage memory.

The unit is enclosed in a rugged "industrial" enclosure, protected from harsh environmental conditions. Radio-ready compatible cables are

available in 3 or 15-foot lengths. Additional peripheral devices interface directly for "plug and play" operation including an optional internal GPS, (Automatic Vehicle Location), credit card reader and a mobile printer.

The RDN7367A adds an internal GPS automatic vehicle location unit. With its advance tracking algorithms, the device reports on polled, timed or exception, and returns position, velocity, health, event log and time. A proprietary "data accumulation compression technology", (DACT™), allows for the recording and accumulation of data over extended periods, and then "rapid fire" transfer over a wireless infrastructure at pre-programmed time intervals. DACT™ provides the dispatcher with detailed, event information on the vehicle being tracked.

Both the RDN7368 and the RDN7367A are compatible with the base software package (RDN7378A) supporting single or multiple channel dispatch, automatic vehicle location, mapping, status tracking and reporting.

## SELF CONTAINED "RADIO READY" GPS MODEM



Self Contained "Radio Ready" GPS Modem *RDN7369A*

The RDN7369A is a stand-alone GPS receiver with integral data modem, designed for applications where low maintenance, performance and reliability are essential. The modem will connect to conventional, repeater, trunking or any voice grade system. Radio-ready compatible cables are available in 3 or 15-foot lengths.

The unit has eight input and three output ports as well as intelligent interfaces making it a highly configurable system component. In addition to its GPS capability, the modem can work with other peripheral devices to provide advanced fleet management. For example, it can be interfaced to engine management systems, sensors and controls to provide real time status conditions or any form of serial information.

With its advance tracking algorithms, the modem reports on polled, timed or exception, and returns position, velocity, health, event log and time. A proprietary "data accumulation compression technology", (DACT™), allows for the recording and accumulation of data over extended periods, and then "rapid fire" transfer over a wireless infrastructure at pre-programmed time intervals. DACT™ provides the dispatcher with detailed, event information on the vehicle being tracked.

The RDN7369A is compatible with the base software package (RDN7378A) supporting single or multiple channel dispatch, automatic vehicle location, mapping, status tracking and reporting.



## SERIAL BREAKOUT UNIT



Serial Breakout Unit  
RDN7738A

The RDN7738A allows for up to 8 channel controllers to be interfaced to the base computer system. Units can also be daisy-chained together to further increase capacity. It is ideal for taxi, ready-mix, education services and other markets.

Works with CDM Series radios. Use with optional cables RDN7739A --3 Foot Flying Lead Cable-- or RDN7740A--15 Foot Flying Lead Cable-- to add two-way radio connector.

## RADIO INTERFACE CABLES



### *Motorola Part Number RDN7370A (3 foot interface cable)*

3 foot terminated radio interface cable for CDM mobile radios.



### *Motorola Part Number RDN7376A (15 foot interface cable)*

15 foot terminated radio interface cable for CDM mobile radios.

## MOBILE PERIPHERAL DEVICES



### *Credit Card Reader RDN7371A*

This optional credit card reader can be used with the RDN7365A, RDN7366, RDN7368, or RDN7367A. The credit card authorization package (RDN7379A) is used to perform automatic

online credit card authorization transactions. A host software system may also be used for processing credit card transactions.

### *Mobile Printer RDN7373A*

The serial interface printer especially designed for the harsh mobile environment provides a

hard copy of the information transmitted from the base.



### *Engine Management Devices*

The mobile data equipment listed above can be interfaced to a wide range of electronic equipment. These range from an on/off switch, e.g. pump off, with the change in switch status

reported back to the base to engine temperature, tank volume, speed or monitor sensitive cargo transmitted through a serial RS-232 or TTL connection.

## GPS MOBILE ANTENNAS



### *Fixed Mount GPS Active Antenna RDN7372A*

### *Magnetic Mount GPS Active Antenna RDN7375A*



## MOBILE PROGRAMMING



### *Programming Software RDN7374A*

Programming software for mobile devices.

### *Mobile Programming Hardware RDN7380A*

## SOFTWARE SYSTEMS

### *AVL Messaging Status Software RDN7378A*



This RDN7378A is a cost-efficient graphical mapping software that provides Automatic Vehicle Location to monitor a fleet, together with a message dispatch and a status tracking capability.

The software is packed with easy to use features, including:

- *Tracking Grid* - Up to two status grids may be displayed concurrently.
- *Send Message* - Type message to send to vehicles
- *Check Status* - Monitor vehicle auxiliary inputs/outputs on a graphical representation
- *Map Display* - Up to four maps may be displayed concurrently.
- *Mouse Pointer* - Allows user to view information: If held over a vehicle, will display Alias via a hint bubble, Latitude, Longitude, Last time of Fix,

Speed, Bearing. When held over a street it will display the street name, and when held over an intersection will display both street names.

- *Locate, Track or Poll Vehicle* - Quickly find a vehicle or constantly track a vehicle
- *Vehicle Detail* - Provides detailed information on a vehicle
- *Replay Feature* - Replay vehicle history and display "breadcrumbs" trail of history
- *Pan* - Allows the user to move the map (Drag and Drop) to a new view.
- *Zoom In - Out* - Provides the user the ability to zoom in to a desired area.
- *Circle Region* - Define and draw geo regions with entry and exit alerts
- *Find Street* - Search for street names

### *Credit Card Software RDN7379A*



The credit card authorization software works with the RDN7365A, RDN7366, RDN7368, or RDN7367A, which are fitted in the vehicles. The software also supports manual keyboard processing

from a PC, and comes with a comprehensive reporting capability. (RDN7378A software is required to operate RDN7379A).

### *Maps US - 10 Counties RDN7377A*



Detailed maps of any 10 US counties. Additional counties are available.



# BASE RADIO CHANNEL CONTROLLER



The RDN7364A is a multiple function "intelligent" base channel modem that manages and routes traffic between the mobile fleet and the base software. It is compatible with conventional, repeater and trunking radio systems.

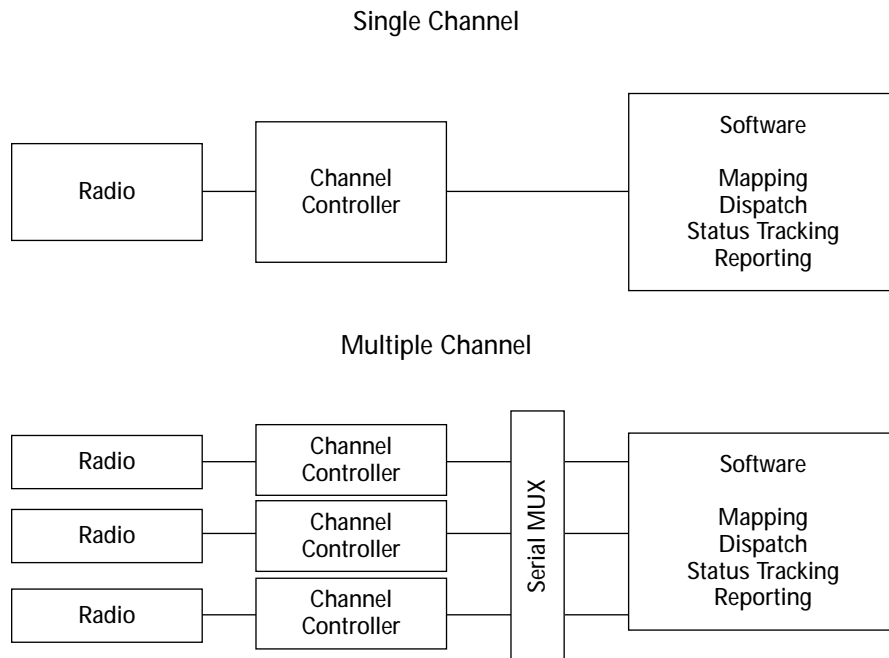
The unit is an addressable device in that multiple devices can be used within the same system with

each Channel Controller representing a specific RF channel. The individual addresses are programmed in the base software.

The RDN7364A has one analog radio interface and one RS-232 serial output which connects to a computer serial port, or in the case of multiple channel applications, the serial multiplexer unit.

## Base System Layout

Each serial MUX supports eight RF channels



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