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# RADIO INTERFACE MODULE

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DESIGNED FOR USE WITH THE 200 SERIES RTU FAMILY, DFS RTU MODULES ARE ASSEMBLED FROM THE HIGHEST QUALITY COMPONENTS AND DESIGNED TO MAXIMIZE USABILITY WHILE MINIMIZING INSTALLATION, MAINTENANCE, AND DOWNTIME.

The Radio Interface Module (RIM) is a microprocessor-controlled module specifically designed for use with our TAC II Central Terminal Units (CTUs), Forwarding Terminal Units (FTUs), and 200 Series RTUs. The RIM, and its integrated radio, is inserted in the reserved "communication module" slot of a Modular Backplane (MBP). This module can interface with up to 15 I/O modules of any combination. The utility's frequency and power requirements determine the RIM model used.

The RIM is able to support four levels of digipeating (store and forward). This process enables the radio signal from a distant RTU to be routed to the central site by passing its message through up to three other RTUs. This is a powerful option for RTU locations that require short antenna heights or those with distance or terrain challenges.

The RIM includes a service port to provide communications link monitoring as well as the ability to directly monitor and/or control each module in the remote terminal unit using DFS provided WinRTU Test software.



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## FEATURES AT A GLANCE

- 505 addresses per communications link
- Board-mounted transceiver with TTL interface communications link
- RS-232 serial port monitor
- Test mode switch for radio service
- System diagnostics on radio current and receiver sensitivity
- Battery backup during a power supply failure
- Uses data-compression algorithm on radio link
- Monitors RTU power and DC bias
- Digitpeat (store and forward) up to four levels
- Modbus system interface
- 1200 or 9600 baud communication
- On-board communications and functional firmware
- On-board voltage regulation radio power supply control
- LEDs for power, receive data, transmit data, on-board hardware fault, and test mode
- No on-board adjustments, switches, or straps (self-configuring)



## SPECIFICATIONS

Model	RIM006-1
Board Size	5.25" x 6.88"
Service Port	RS-232 (ASCII)
Circuit Protection	Transorb
Power Requirements	12-14 VDC, 165 mA average, 1 amp peak
Radio Interface	RS-232 (ASCII), TTL, Manchester coded
LEDs	Power, receive data, transmit data, on-board hardware fault, and test mode

## WARRANTY

This product carries a one (1) year return-to-factory warranty against defects in material and workmanship. When installed with factory recommended surge protection, the return-to-factory warranty is extended to three (3) years and is also covered against damage due to lightning and surge. DFS will repair or replace at its option, F.O.B. Melbourne, Florida, any part or parts of this product during the warranty period. A Return Authorization (RA) must be obtained by contacting the DFS Factory Repair Center at 321-259-5009 or by email at [rma@dataflowsys.com](mailto:rma@dataflowsys.com).