



Standard Features:

- License-Free Radio (902-928MHz)
- Built-in Digital & Analog I/O
- Spread-Spectrum, Frequency-Hopping Technology
- RF Signal Strength Indication
- Loss of Signal Output
- Point-to-Point or Point-to-Multi-Point Topologies
- Automatic Recognition of Attached I/O Modules
- 1 Watt RF Output for 12+ Mile Range (Outdoor)
- Integrated Power & Data Bus Reduces Wiring
- Modular Design Provides Maximum Flexibility
- Power: 24 VDC (From Integrated Bus)
- Class I, Div. 2 Approval Pending

Function:

The MTS-RF9 is a license-free radio communications module that forms the backbone of an MTS telemetry system. These modules can be configured as 'Host' or 'Remote' by a single DIP switch. Systems can be setup in a 'Point-to-Point' or 'Point-to-Multi-Point' topology.

A set of built-in Digital and Analog Inputs and Outputs is available on the MTS-RF9 which greatly reduces the need for external I/O modules for small systems.

Typical indoor range is 1500+ ft. Outdoor range can be extended to 12+ Miles with directional antennas. A signal strength indicator shows the amount of RF signal received. Pribusin offers a complete line of antennas and accessories for all types of installations.

The MTS-RF9 can also be used as a stand-alone Wireless RS-232/RS-485 link between PLCs etc.

Deployment and installation is as simple as plugging the needed I/O modules into the communications module and assigning unique module ID's. The MTS-RF9 automatically discovers the I/O modules that are attached to it and does all necessary configuration. Power and communication for the modules are provided through an integral bus.

Configuration:

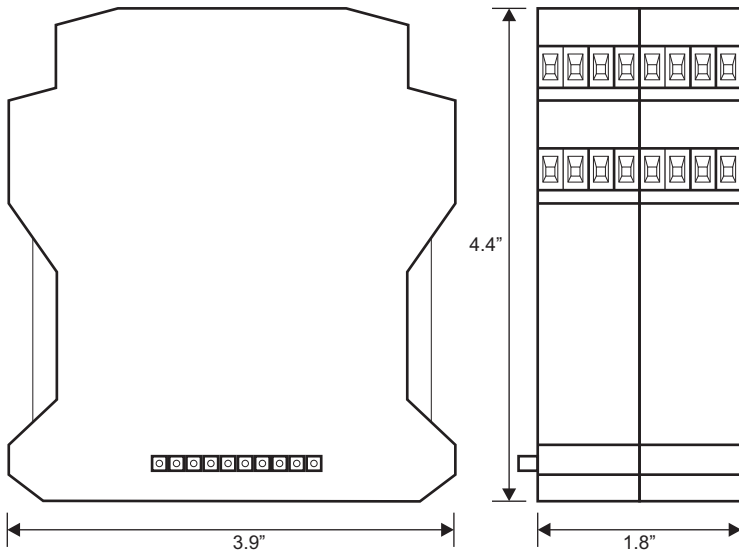
The MTS-RAD uses a number of DIP switches that define the following operating parameters: Host/Remote, RF Power, RF Speed, Hop Table, Repeater, Module ID.

Specifications:

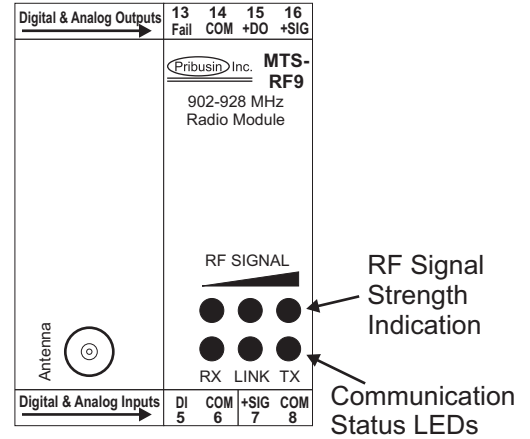
- RF Output: 100mW/1000mW selectable
- Range: 1500+ ft. Indoor, depending on obstructions
12+ mi Outdoor with YAGI Antenna
- RF Band: 902-928MHz, License-Free ISM Band
- Receiver Sensitivity: -110dBm
- Digital Input: Dry Contact or 0-24VDC
- Digital Output: Open Collector, 24VDC @ 100mA max.
- Analog Input: 4-20mA, 250Ω input impedance
- Analog Output: 4-20mA, 700Ω loop drive
- Power Consumption: 2.5VA @1W RF Output
1.5VA @100mW RF Output
- Temperature: -40°C to +70°C (Operating)
- Approvals: Class I & II, Div. 2 and Class III, Div. 1&2 (pending) UL 508; CSA-C22.2 No. 14-95

MTS-RF9

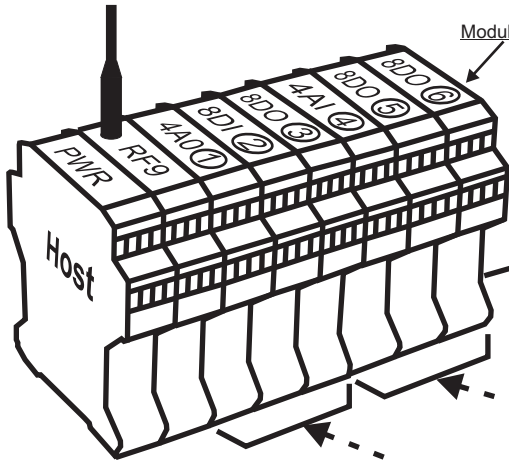
Module Dimensions:



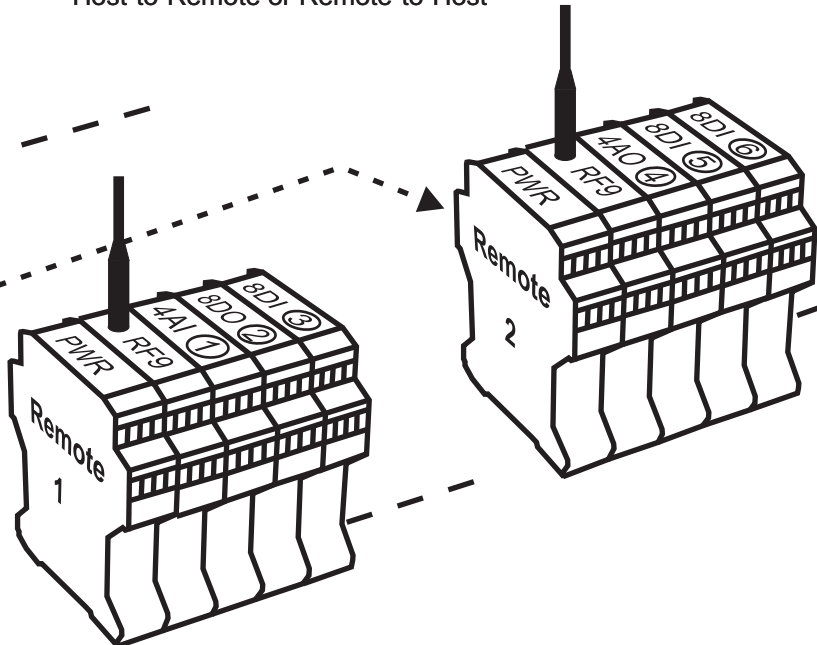
Top View:



System Example:



- Each Input module must have an Output module counterpart
- Each module pair uses the same module ID
- One host radio module can communicate with up to 99 remote radio modules
- Module pairs may be arranged to exchange signals either from Host-to-Remote or Remote-to-Host



For a complete list of Communications and I/O modules please see our website at www.pribusin.com/telemetry.htm

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