



Function:

The MTS-RAD 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. Multiple frequency hop tables allow several MTS radio systems to operate in close proximity.

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-RAD 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-RAD 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.

Standard Features:

- License-Free Radio (902-928MHz)
- 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
- No Programming Required - Easy to Configure
- Power: 24 VDC (From Integrated Bus)

Configuration:

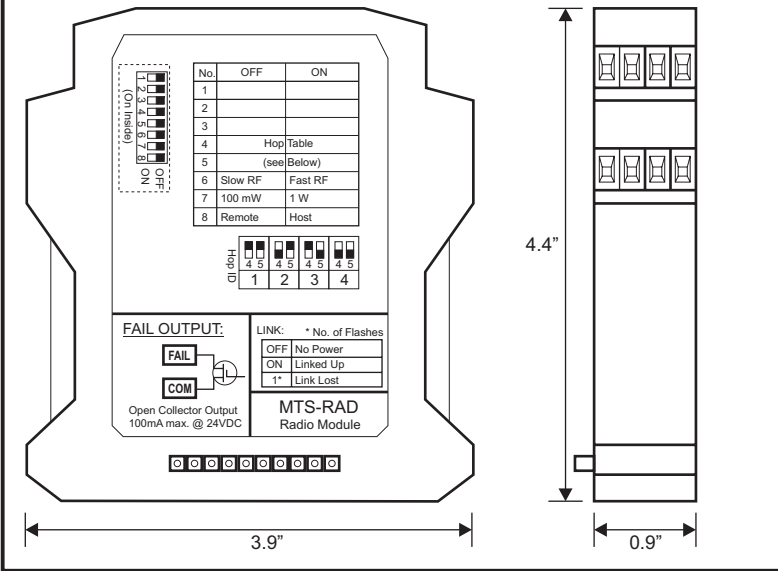
The MTS-RAD uses a number of DIP switches that define the following operating parameters: Host/Remote, RF Power, RF Speed, Hop Table. All MTS-RAD modules in a system must be configured the same way (but only one as Host) in order for them to establish a radio link.

Specifications:

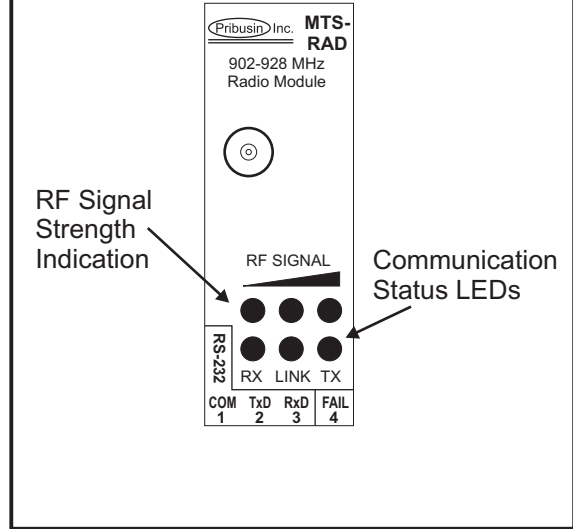
- RF Output: 100mW/1000mW selectable
- Range: 1500+ ft. Indoor, depending on obstructions
- 12+ mi Outdoor with YAGI Antenna
- RF Band: 902-928MHz, License-Free ISM Band
- Receiver Sensitivity: -110dBm
- Comm. Speed: 9600/115000 Baud Selectable
- Power Consumption: 2.5VA @1W RF Output
- 1.5VA @100mW RF Output
- Temperature: -40°C to +70°C (Operating)

MTS-RAD

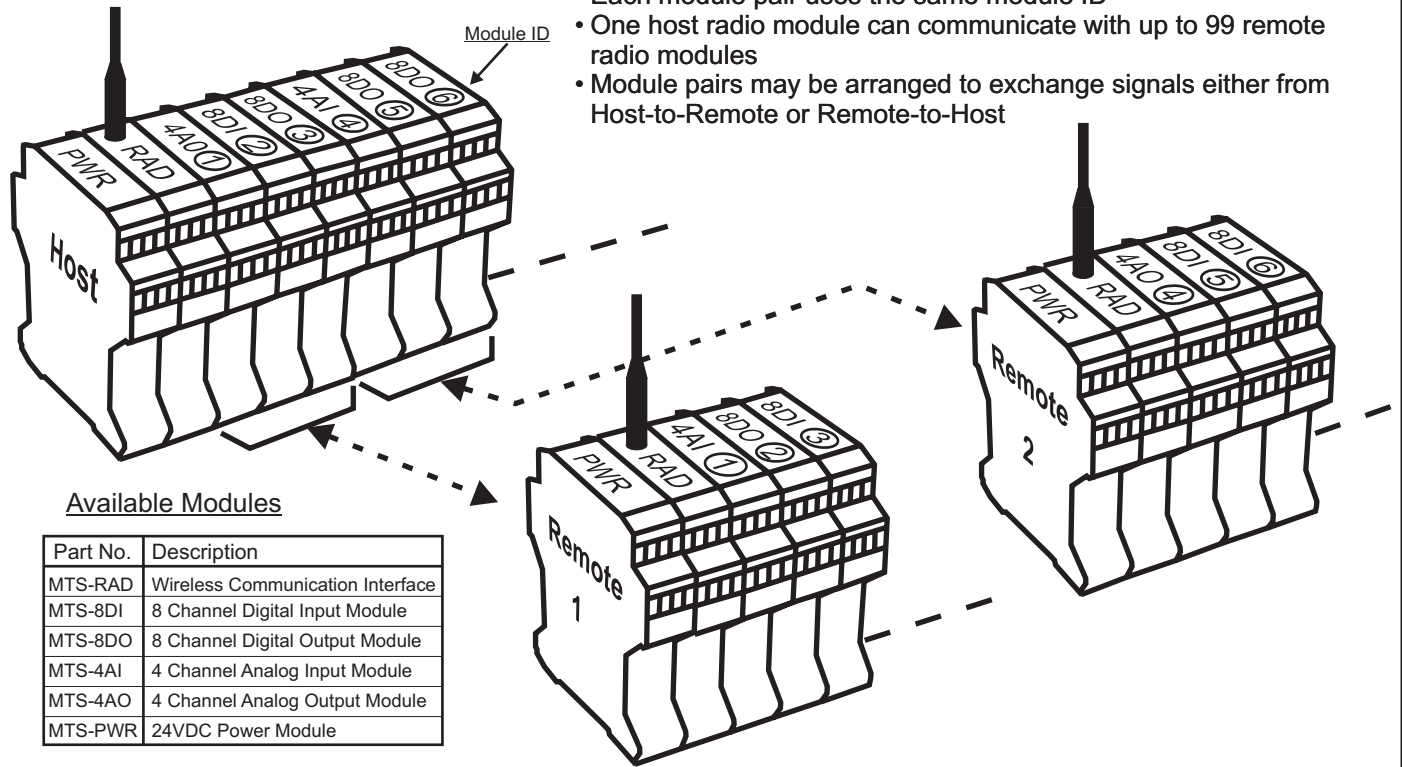
Module Dimensions:



Top View:



System Example:



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