

# Tactical Router

Small Form Factor Avionics Modem



## Description

Acts as a stand-alone IDM and supports the full MIL-STD-188-220 stack and host applications

Multiple protocol support: VMF, XML and MIL-STD-188-220.

When coupled with a radio, sends digital data information to a variety of military assets.

## Uses

- Replaces Legacy IDM V302 and ATHS
- Creates data communications in existing platforms

## Attributes

**Channels**  
Three

**Ports**  
Three Serial Digital Ports  
(Synchronous/Asynchronous)

**Link Layer Protocols**  
- AFAPD  
- MIL-STD-188-220

**Network Layer Protocols**  
- TCP/IP (IP, UDP, TCP, ICMP, IGMP, SNMP)  
- Routing Information Protocol (RIP)

**Application Message Sets**  
- AFAPD  
- MIL-STD-6017 VMF  
- Blue Force Tracking

**Host Interface Connections**  
- Ethernet  
- MIL-STD-1553B (optional)  
- RS-232  
- RS-422

## Radio Interfaces

**Radios (Examples)**  
- RT-1532E (SINCGARS SIP & ASIP)  
- ARC-210  
- ARC-231  
- ARC-201D  
- ARC-164  
- ARC-186  
- ARC-231  
- PRC-117F  
- PRC-148  
- PRC-113  
- PSC-5  
- KY 57, 58 devices  
- L-Band Transceivers (BFT)  
- Other custom radio interfaces

**Baseband Modulations**  
- NRZ  
- ASK  
- FSK

## Key Features

**Size**  
4.5" x 4.5" x 2"

**Weight**  
2 lbs

**Power Consumption**  
10W @ 28VDC,  
MIL-STD-740A-E

**Reliability**  
MTBF: >5000 hours

**Environmental Temperature**  
- Operational:  
-40 to +71 C ambient  
- Non-operational:  
-54 to +85 C

**Hardware Compliance**  
- MIL-STD-810F  
- MIL-STD-461E

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