



Naval & Strategic Communications Tactical
 Communications Government Communications Embedded
 HF / VHF Modem Modules

Tactical Communications

RT1-M Tactical 5066 Terminal for Legacy Radios

RD2-RCU & RD2-RIU Remote Tactical Radio Control

RT1-M Tactical 5066 Terminal for Legacy Radios (Available Q1 2010)

The **RT1-M** is a flexible handheld field terminal for NATO standardized data communications. The unit has an embedded modem module that will operate with legacy HF and V/UHF man-pack or vehicular audio radios.



Custom C4I applications

The tactical hardware platform of the **RT1-M** is ideal for the development of custom **C4I** applications.

Component	Description
Operating System	Linux
Processor	ARM9, 200 MHz
Disk (Solid State)	8GB (upgradeable)
RAM (OS & Apps.)	64 MB
Display	QVGA (320x240), full colour, OLED
Keyboard	QWERTY, tactile feedback
GPS	Internal with patch antenna
Batteries	2x AA (Alkaline or NiMH)

Features & Benefits



Designed for mobile Tactical Combat Environments

- Ultra light weight (< 500g)
- Small size (fits in palm of hand or shirt pocket)
- Rugged, waterproof, drop and shock resistant
 - ◊ MIL-STD-810F
- Immersion: 3 meters
- Drop test: 3 meters, 54 drops
- Tampered, scratch resistant display window
- Daylight readable display
- Night Mode (reduced or no light emissions)
- Matt olive drab & black colouring
- Standard AA-sized alkaline or NiM H batteries
- 30+ hours battery life
- Field cleanable, ultra robust military connectors
- Field repairable interface cables
- Ultra low EMI with tactical HF radio equipment
- Radio silent (EMCON) mode
- ACP-127 compatible keypad (ITA-2)
- Standard military messaging formats

Application: Rapid Tactical Data Network Deployment in diverse radio environments

- Built-in charger, 9 - 36 VDC input

	rechargeable)
Charger (built-in)	9-36 VDC, designed for MIL-STD-1275B
Interfaces	- Radio (audio TX/RX, PTT) - Serial (data & control) - USB (Host)
USB peripherals	- Mobile printer - Digital camera - Bluetooth - Flash drive - Bar code scanner (future)
Pre-installed applications	- Free-form messages - Template messages - E-mail (STANAG 5066) - GPS position reporting
Language Support	- English - Portuguese - Others (as required)

Please [contact RapidM](#) to discuss your custom **RT1-M** application.

[Contact us](#) for pricing.

- Enable force-wide standardized digital communications by adding the RT1-M to all legacy HF & V/UHF radios
- Direct support for legacy (audio) radios
 - ◊ Radio-specific interface cables available
- NATO & MIL-STD standardized HF data modem
 - ◊ High data rate (HDR) - up to 9600 bps in a standard 3 kHz radio channel
 - ◊ STANAG 4539
 - ◊ MIL-STD-118-110A/B
- Automatic link establishment (2G ALE)(Optional)
 - ◊ MIL-STD-188-141B App. A, B
- NATO standardized Automatic Repeat Request (ARQ)
 - ◊ STANAG 5066 (JITC certified)
 - ◊ Proven interoperability with other STANAG 5066 vendors
- Multi language support
- DES or AES-128 end-to-end encryption

Application: Instant Blue-force tracking for C4I situational awareness

- C4I field sensor for real-time, secure position information:
 - ◊ Standard NMEA protocol output
 - ◊ Automatic or manual push
 - ◊ Over-the-air (OTA) pull
- MIL-STD-2525 aligned identification format
- "Red" force reporting function
- Ultra optimized data transfer

Application: Command and control (CC)

- Situational Reports (SITREPs)
- Medical casualty evacuation (CASEVAC) co-ordination
- Logistics management:
 - ◊ Fuel (type, qty)
 - ◊ Ammunition (type, qty)
 - ◊ Batteries
 - ◊ Food
- Emergency SOS (unspecified / specified)
- Supply drop co-ordination
- Weather reports

Application: Optimizes "boots-on-the-ground" intelligence

- Time + position stamped information reports
- Special Forces

- Counter Insurgency Operations (COINOP) support
- Forward observation
 - ◊ Fire control and direction
 - ◊ Surveillances and reconnaissance
- Border posts & border patrol
- Customs
- Counter drug operations
- Homeland security
- Disaster relief
- Non-combatant Evacuation Operations (NEO)

Application: Peace Keeping

- NATO standardized communications
- Suitable for use in coalition forces
- Unified, command interface across various tactical radio networks
- Military Operations Other Than War (MOOTW) reporting function
- People find reporting function

RD2-RCU & RD2-RIU Remote Tactical Radio Control (Available Q1 2010)

The **RD2-RCU** (Radio Control Unit) together with the **RD2-RIU** (Radio Interface Unit) is a robust and reliable remote control solution for tactical radios. It is suitable for use in applications where a physical separation between the operator and the tactical HF or V/UHF radio is required.

Radio Control Unit

The **RD2-RCU** is the operator's control interface for the remote tactical radio.



Radio Interface Unit

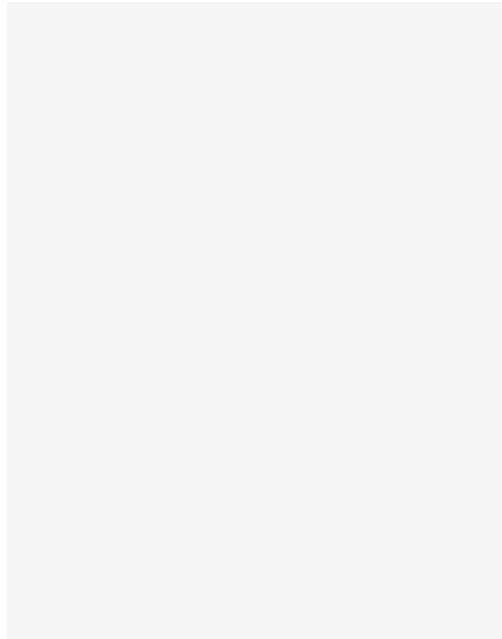
The **RD2-RIU** is the interface to the tactical radio

Features & Benefits



RD2-RCU and RD2-RIU Platform

- Remote radio operation over field wire (plain or steel-reinforced)
- Physical separation of operator and HF transceiver
- Full duplex analogue voice (with standard field handset / loudspeaker)
- Remote Channel & Volume control
- Up to 32000 bps remote data capability (optional)
- Plug and play - no settings
- Long range: up to 10 km
- No interference with HF or V/UHF radio
- Battery operated: 9 hrs operation (RCU)
- IP68 rated enclosure
- MIL-STD-810-qualified
- CE-compliant (future)



Downloads & Links

Format

[RM RD2 RCU RD2 RIU Remote Tactical Radio Control Datasheet](#)



[Contact us](#) for pricing.

