

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	<ul><li>Radio (audio TX/RX, PTT)</li><li>Serial (data &amp; control)</li><li>USB (Host)</li></ul>
USB peripherals	<ul><li>Mobile printer</li><li>Digital camera</li><li>Bluetooth</li><li>Flash drive</li><li>Bar code scanner (future)</li></ul>
Pre-installed applications	<ul><li>Free-form messages</li><li>Template messages</li><li>E-mail (STANAG 5066)</li><li>GPS position reporting</li></ul>
Language Support	<ul><li>English</li><li>Portuguese</li><li>Others (as required)</li></ul>

Please  $\underline{\text{contact RapidM}}$  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**

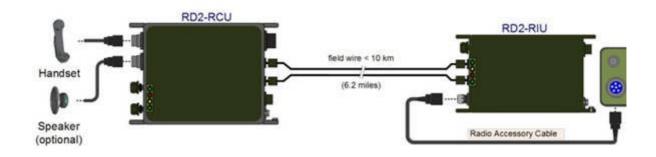
- Remote radio operation over field wire (plain or steel-reinforced)
- Physical separation of operator and HF transceiver
- Full duplex analogue voice (with standard field handset / loudspeaker)
- Remote Channel & Volume control
- Up to 32000 bps remote data capability (optional)
- Plug and play no settings
- 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)



RM RD2 RCU RD2 RIU Remote Tactical Radio Control Datasheet



Contact us for pricing.



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