



KEY FEATURES:

Email over HF & V/UHF

- Error free data communication
- Compression
- Resumption
- Combining
- Prioritized

Internet e mail

- Microsoft Outlook™ Compatible
- Supports attachments
- O SMTP, RFC 2821
- O POP3, RFC 1939

ARQ Data Protocol

- O Based upon STANAG 5066 V2
- Automatic Data Rate Change (DRC)
- O Automatic Link Maintenance (ALM)

Simplified Administration

- Easy network configuration
- Frequency planning
- Configuration of email addresses

Platforms

- O Windows 10
- O Windows 8
- Windows 7

HF & V/UHF EMAIL

The RC50 Email Software together with a RapidM modem offers users the ability to send and receive emails efficiently and reliably over HF and V/UHF radio links, utilizing existing radios.

The user access email using well known email clients such as Microsoft $Outlook^{TM}$ and Mozilla Thunderbird.

EFFECTIVE INTERFACE

The RC50 graphical user interface (GUI) allows for easy configuration of the RF Network. The GUI structures status information to allow the administrator to monitor system performance.

RC50 gives the user complete control to use the radio for data or voice transmission as required by the user.

The RapidM Data Modems have the ability to sense the PTT signal allowing the RC50 to automatically stop data transmission when the user uses the radio for voice transmission.

EFFECTIVE CHANNEL USAGE

 $\ensuremath{\mathsf{RC50}}$ compresses all emails, translating to higher throughput and shorter time on air.

RC50 continually maximizes data throughput by monitoring the signal quality and adjusting the data rate in accordance with the link quality (DRC).

If the radio channel is no longer viable for communication the modem's ALE function is used to select a different channel for continued communication (ALM channel change).

Email prioritization results in high priority emails being sent first. Larger lower priority emails can be preempted by shorter higher priority emails.

Should the transmission of an email be interrupted or preempted, the interrupted email will be automatically resumed.

MULTI FREQUENCY SUPPORT

RC50 uses the Automatic Link Establishment (ALE) function of the modem (such as the RM2 Modems) to enable efficient multi-frequency operation. Radio network configuration is simplified using pre-configured network configurations.

The RapidM Data Modems provide a 2G ALE function. The 2G ALE setup is automatically done by the RC50 based on a pre-configured radio network.



Sending email

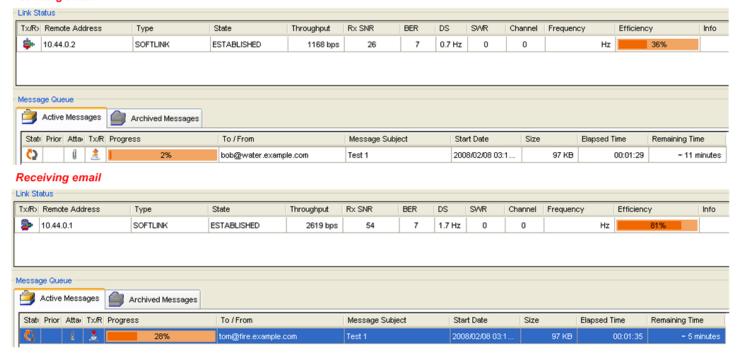


Figure 1: RapidM RC50 Email Software GUI

CATEGORY	CAPABILITY	
DATA LINK PROTOCOLS	STANAG 5066 based data-link protocol	
STANAG 5066 STACK	ALE (Automatic Link Establishment) ALM (Automatic Link Maintenance) DRC (Automatic Data Rate Change) ARQ Data (Automatic Repeat on Request) Collision Avoidance and Recovery	
NETWORK PLANNING & CONFIGURATION	Network wide 5066/ALE Addressing Radio frequency planning & selection	
HF MESSAGING CLIENTS	Compressed Email Client (based upon CFTP)	
EMAIL CLIENT INTERFACES	POP3 (RFC 1939, excluding APOP) SMTP (RFC 2821, excluding a uthentication)	
HF MESSAGE MANAGEMENT	Message resumption Message grouping to destination Priority-based message queuing Message delivery failure notification Pull-messaging functionality	
MODEM INTERFACES	Remote Control (RS-232, Data + Modem Control) Ethemet (Data + Modem Control)	
HF RADIOS	See RM2 User Manual	

Ordering Information	STOCK NUMBER	DESCRIPTION
RC50 EMAIL SOFTWARE	RMS-PC-RC50-2.3	S/W: RC50 G/Sec Email Suite Win V2.3
RM2 HARDWARE	RME-2R-P1-M0HVM	SDM: RM2-HVM M0 (B/loader) Active V3.2
HF MODEM M4 SOFTWARE OPTION	RXH-SW-O-M4-5.1	SW MDL-M4 (HF MdM S4539 9600 bps) V5.1
V/UHF MODEM V1 (24 kHz) SOFTWARE OPTION	RXH-SW-O-V1-3.1	SW MDL-V1 (VHF B\(\frac{2}{2}\)4kHz \(\frac{2}{9}\)6000 bps) V3.1
V/UHF MODEM V2 (12 kHz) SOFTWARE OPTION	RXH-SW-O-V2-3.1	SW MDL-V2 (VHF B\(\frac{1}{2}\)kHz \(\frac{4}{4}\)8000 bps) V3.1
2G ALE (MIL-STD-188-141B) SOFTWARE OPTION	RXH-SW-O-2G-1.8	SW MDL-2G ALE / MS 141B, App. A, B V1.8
INTERNAL GPS MODULE	RM2-AC-2004-SPC	GPS: Module Int Fitted with Ant, RM2 V01

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Cyntony Corporation 195 Follen Road Lexington, Massachusetts sales@cyntony.com 781-430-0675



