RC50 Email Communications Suite

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Efficient and reliable HF & V/UHF Email



Using well known and standard applications such as Microsoft Outlook™ and Lotus Notes™ to write and read emails, the RC50 Email Communications Suite together wil a AT Comms modem, offers the ability to send and receive emails efficiently and reliably over HF and V/UHF radio link utilizing existing radios.

Higher Throughput

RC50 compresses all emails, translating to higher throughput and shorter time on air.

A feature called, *Email prioritization*, results in high priority emails being sent first. Longer 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.

More Effective Channel Usage

By monitoring the signal quality and adjusting the data rate in accordance with the link quality (DRC), the RC50 continual maximizes data throughput. When a 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).

The RC50 graphical user interface (GUI) allows for easy configuration of the HF Network. The GUI structures status information to allow the administrator to pinpoint faults, failures and inefficiencies in network.

Radio operators have complete control whether they use the RC50 for data or voice transmission. The data modem senses the PTT signal allowing the RC50 to automatically stop data transmission when the user switches to voice transmission.

Multi frequency support

Using the Automatic Link Establishment (ALE) function of the modem to enable efficient multi-frequency operation, the RC50 simplifies the radio network configuration by providing pre- configured network configurations.

AT Communication ©

AT Comms Data Modems 2G ALE function provides MIL-STD-188-141B Automatic Link Establishment (ALE). The 2G ALE setup is automatically done by the RC50 based upon a pre-configured HF network.

Features:

Email over HF and VHF/UHF error free data communications

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\checkmark	Com	pres	sion

Resumption

Combining

Prioritized

Internet email

✓ Microsoft Outlook™ Compatible

Supports attachments

✓ SMTP, RFC 2821

✓ POP3, RFC 1939

ARQ data Protocol

✓ Based upon STANAG 5066 v1.2

✓ Automatic Data Rate Change (DRC)

✓ Automatic Link Maintenance (ALM)

Simplified Administration

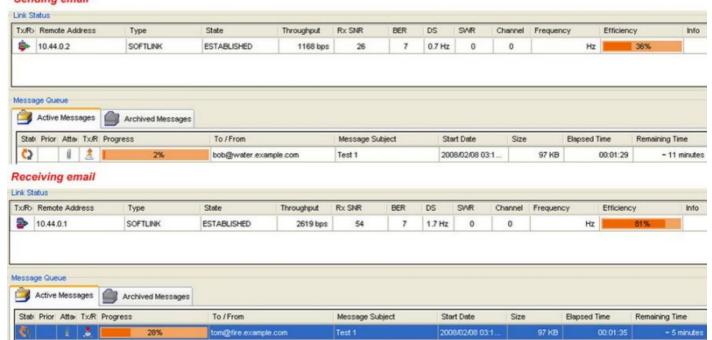
Easy network configuration

Frequency Planning

Platforms

- ✓ Windows 7
- ✓ Windows 2000
- ✓ Windows XP
- ✓ Windows Vista

Sending email



RC50 Email Communications Suite 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	Network wide 5066/ALE Addressing	
& Configuration	HF frequency planning & selection	
HF Messaging Clients	Compressed Email Client (based upon CFTP)	
Email Client	POP3 (RFC 1939, excluding APOP)	
Interfaces	SMTP (RFC 2821, excluding authentication)	
HF Message	Message resumption	
Management	Message grouping to destination	
	Priority-based message queuing	
	Message delivery failure notification	
	Pull-messaging functionality	
Modem Interfaces	Remote Control (RS-232, Data + Modem Control)	
	Ethernet (Data + Modem Control)	