

# SOFTWARE APPLICATION

## RC-50C



Codan's RC50-C HF Email software provides fast, efficient, error free email capability over HF radio. Operating in conjunction with Codan's HF Transceivers and RM50 range of Data Modems, the software operates on a standard Windows™ PC using a single USB port with no specialised PC hardware requirements. When installed, the software runs in the background requiring no user interaction.

### ADAPTIVE DATA RATES UP TO 19200 BIT/S

When used with a CODAN™ ISB capable Transceiver data rates up to 19200 bit/s are possible. Data rates are fully adaptive to suit the prevailing channel conditions ensuring the fastest possible data rate is used at all times. Inbuilt compression and industry leading data rates minimise station on-air time.

### NATO INTEROPERABLE

Operator control via a standard POP3 email client and the use of STANAG 5066 ensures the system is interoperable with other manufacturer's system

### DATA ENCRYPTION

Over the air transmissions can be encrypted using AES-256 bit encryption. Additionally, the RC50-C system has been designed to support customer defined third party email encryption software for full end-to-end email encryption.

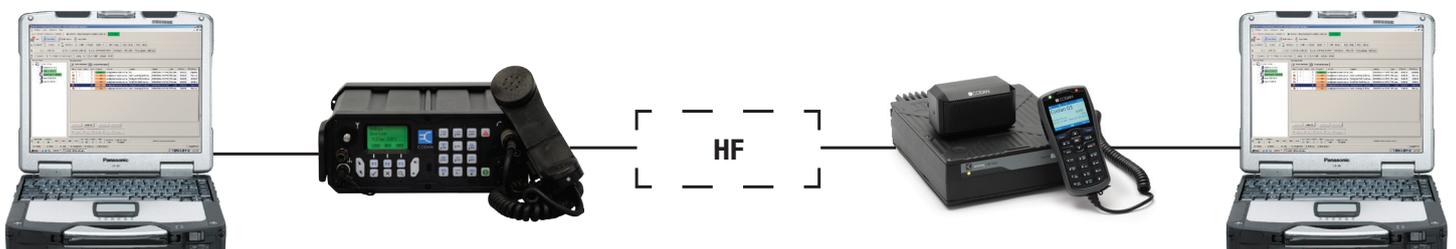
### SIMPLIFIED OPERATION USING CALM™ / ALE

The RC50-C HF Email software integrates with Codan's enhanced CALM™/ALE linking system, simplifying operation and ensuring the best available channel is chosen for each data session.

### INTRANET / INTERNET GATEWAY

RC50-C can be configured as a gateway to connect with a wider Intranet/WAN providing a fully integrated field email service.

## SYSTEM CONFIGURATION



# SOFTWARE APPLICATION

## RC-50C



CODAN  
COMMUNICATIONS

## SPECIFICATIONS

### GENERAL

<b>STANAG 5066</b>	V1.2 Annex F.12 Compressed File Transport Protocol (CFTP)
<b>Data rate control</b>	Adaptive, controlled by BER measurements, ISB 75 to 19200 bit/s, SSB 75 to 9600 bit/s
<b>Data Interface</b>	USB2.0 or RS232 Serial
<b>Minimum PC system requirements</b>	Windows™ XP Professional SP2 or Windows™ 2000 Professional SP4 Compatible with Windows™ 7 Intel Pentium IV 800 MHz or better 6 GB or more of free space for email storage 512 MB or more of RAM CD-ROM drive POP3 / SMTP compliant email client Access to any commercial POP3 / SMTP compliant email server for internet connectivity
<b>Recommended transceivers</b>	Envoy™ X2 Manpack 2110, 2110M** Sentry-H 6120-BM

### SUPPORTED WAVEFORMS

### MODULATION

### DATA RULES

<b>MIL-STD-188-110A</b>	Coded PSK Uncoded PSK	75, 150, 300, 600, 1200, 2400 4800
<b>MIL-STD-188-110B (serial tone)</b>	Coded PSK/QAM	3200, 4800, 6400, 8000, 9600
<b>MIL-STD-188-110B (Appendix F)*</b>	Coded PSK/QAM	ISB: 9600, 12800, 16000, 19200
<b>STANAG 4539</b>	Coded PSK/QAM Uncoded PSK/QAM	75, 150, 300, 600, 1200, 2400 3200, 4800, 6400, 8000, 9600 12800
<b>STANAG 4285</b>	Coded PSK Uncoded PSK	75, 150, 300, 600, 1200, 2400 1200, 2400, 3600
<b>STANAG 4415</b>	Coded PSK	75
<b>STANAG 4529</b>	Coded PSK Uncoded PSK	75, 150, 300, 600, 1200 600, 1200, 1800

\*Requires an ISB capable Transceiver. \*\*Consult with Codan for configuration options.

Values noted are typical. Equipment descriptions and specifications subject to change without notice or obligation.