RM50E HF DATA MODEM

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The RM50e is a high performance MIL-SPEC HF modem designed to connect to the NGT family of radios. Compatible with the RM50 in the manpack, this modem provides legacy interoperability with systems running Fixed Frequency and ALE networks operating STANAG 5066 email.

MILITARY STANDARD WAVEFORMS
The RM50e operates using the most highly advanced Military Standard (MIL-STD) waveforms, according to STANAG 4539, 4285, 4415, 4529 and MIL-STD-188-110B, providing adaptive rates from 75-9600 bps coded.

STANAG 5066 EMAIL CLIENT
To ensure compatibility with other Military Standards, Codan offers as standard the RC50-C STANAG 5066 email client, compatible with industry standard SMTP/POP email clients.

SPECIFICATIONS

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

*Requires ISB capable NGT

GENERAL

LED indication	Green — Data Modem Active (modem is ready to transmit or receive data

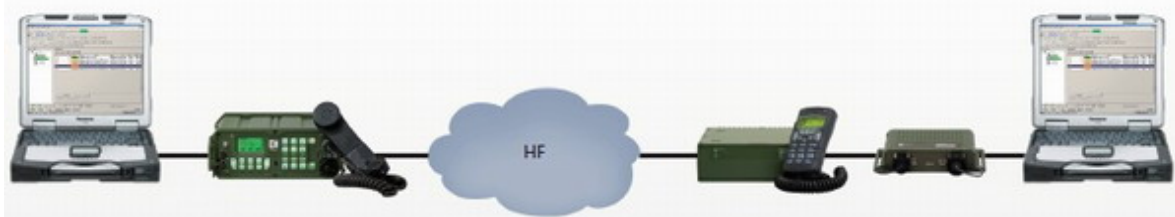|	Orange — Data Modem Standby (modem is in power saving mode)
Supply voltage	9–16 V DC (13.8 V DC nominal)
Supply current	100 mA typical at 13.8 V DC (data modem active Tx or Rx), <3 mA (standby)
Temperature	–30°C to +60°C
MECHANICAL	
PC interface	19-way MS bayonet
NGT interface	14-way MS bayonet
MIL-STD-810F	Immersion, Dust, Vibration
Dimensions	185 mm W x 41 mm H x 92 mm D (excluding connector protrusions)
Weight	0.7 kg
SYSTEM	
08-06978-001	RM50e Data Modem
15-04167-EN	RM50e Data Modem Operator Guide
15-04161-CD	RC50-C STANAG 5066 Email Client (supplied with RM50e Modem)
08-06901-001	RM50e USB Data Cable
08-06979-00x	RM50e to NGT Transceiver interface cable (x = cable length, 1 or 6 m)
REQUIRED OPTIONS FOR NGT:	
15-10469-000	Opt NGT Fan (Factory fit)
15-10541-000	Opt High Speed Data (Factory fit)
15-10514-000	Opt 2.7 kHz Filter (for MIL-STD waveforms)

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