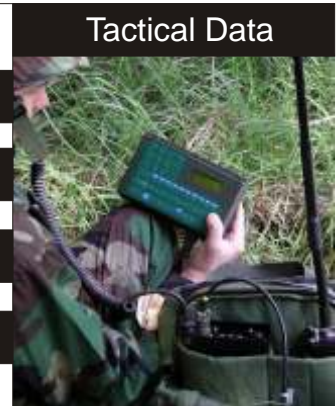# Q-MAC Electronics

QM9080 Field Data Terminal (GPS Option)

Tactical Communications

Tactical Data

Small Size

Simple Operation

GPS Send and Receive

Clear and Encrypted Messaging

Secure, Simple to Use, Versatile

The Field Data Terminal (FDT) is a hand held combat data terminal which is designed and built in Australia and will provide error free and secure transmission of text based messages by the Q-MAC HF-90 or HF-90M radio or via field cable or phone network.

The FDT is ideal for tactical applications where secure text based messaging is required in a simple, easy to use format. The FDT is self contained and does not require a PC or modem with complex wiring and software. The FDT can be optioned with a GPS receiver to send and receive co-ordinates. GPS coordinates can be inserted with text or the FDT can be polled for unattended operation for tracking applications.

This FDT is designed to meet many of the specific needs of tactical military users. The equipment is housed in a rugged, waterproof cast aluminium case designed to meet the challenges of tactical operations. Messages can be entered as free or formatted text, the latter by way of prompted question/answer fields.

The FDT is available to government and military users with an embedded encryption system. The FDT uses selective calling and can stack incoming messages which allows unattended operation. A store and forward option provides considerable flexibility, while an error sensitive ACK/AGAIN capability reduces operator work load.

The equipment has an internal BITE system to assist fault finding and to promote user confidence. The equipment is designed for both HF and VHF operations and its proven forward error correction system allows for operation in the frequency hopping environment.

The FDT Encryption option is a Department of Defence controlled item and requires an export permit prior to supply.

Standard Package Contents

- FDT Field Data Terminal
- FDT to HF-90M Mating Cable
- 2 x 9V Battery
- 4 x AA Penlight Battery
- Maglite(tm) Torch for night use
- Operator Instruction Card
- Canvas Pouch

Specifications

General

Dimensions:	50mm x 120mm x 198mm
Weight:	950gm
Temperature:	-20 to +70C
Altitude:	10,000m unpressurised
EMC:	Designed to Mil-Std 810F
Screen:	2 Lines 16 Characters
Power:	8-30V DC (external)
Battery Life:	9V DC (internal)
Maintenance:	Built-in Test Equipment (B.I.T.E.)

Technical

Modem Rate:	300,600 baud with option 1200 HF 2400,4800 VHF
Audio Bandwidth:	300Hz to 2700Hz
Error Correction:	Triple pass forward error correction with sliding window sync suitable for frequency agile use
Memory:	Program 64K, Data 128K
Message Length:	2000 Characters
Pre-programmable Forms:	16
Sub Headings per Form:	26
Total Sub Headings:	416
Message Length per Form:	1536 Characters
Alarms:	Low Battery, Operator Error, GPS Fix, BITE Fail
User Cues:	Receiving Message, Printing Message, Unread Message Stored, Sending Message
Selective Call:	Alpha numeric tri-graph including group and all call
Other:	Auto/Manual ACK NACK

Q-MAC Electronics

QM9087M Secure Tactical Workstation

Tactical Communications

Tactical Data

Rugged Construction

Situational Awareness

GPS Send and Receive

Clear and Encrypted Messaging

Secure, Simple to Use, Versatile

The QM9087M is designed to provide access to high end computer power, secure messaging and transmission facilities for tactical field users. The equipment is rugged, lightweight and is intuitive to use because of the familiar Microsoft Windows NT operating system.

Unlike many ruggedised Laptop PC's, the QM9087M is a comprehensive solution which includes hardware and software for secure email with attachments, mapping, moving map display, in-built GPS and communications planning and management. The complete workstation package gives the terminal user the ability to produce and process secure text and graphic data for transmission over a wide selection of networks, as well as access to map based situational awareness tools.
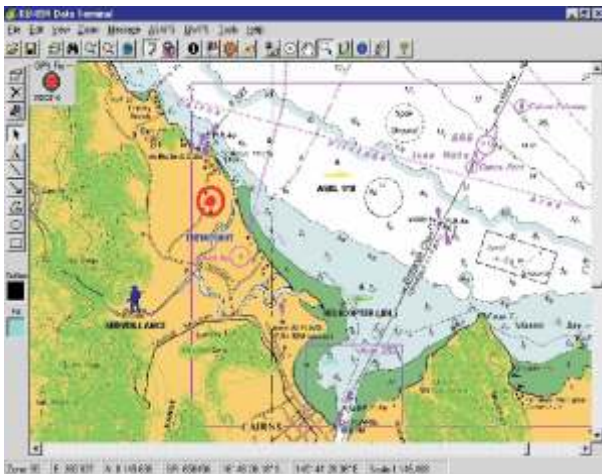
The QM9087M is fully compatible with the FDT for exchanging tactical data. The QM9087M workstation is designed to be the intermediate step between the simple messaging capability of the FDT and the larger routed network management capability of tactical data switches.

Integrated data systems combining Air, Land and Sea platforms can be accommodated with rack mounted data switches and dedicated terminals. For more information on this capability, please contact Q-MAC for a technical consultation.

Features

- Internal Integrated GPS
- Internal HF/VHF Radio Modem
- Ethernet Port (10Base-T)
- RS-232/485 Serial Ports
- Parallel Printer Port
- Internal Crypto System
- Secure Email Capable
- 32Mb RAM (expandable)
- 20 GB HDD (expandable)
- 158mm x 211mm Colour VGA Screen
- Full QWERTY Keyboard
- External Mouse, K/B & Screen Connections
- Windows NT4 TM OS
- Inbuilt Pointing Device
- Dual Processor 300MHz LP & 1 x 8051 Pentium
- 8 - 36V DC Operation
- Weight 4Kg
- Dimensions 285mm x 225mm x 65mm
- Mapping Software
- Communications Software
- Comms Planning System
- Online Help
- Optional High Speed HF/VHF Modem
- Optional Internal Data Modem
- Optional PCMCIA Ports
- Optional Camera Software
- Optional Touch Screen
- ECM Modes - Standard
- Optional MIL 188-220A

NCS INTERNATIONAL

CERTIFIED QUALITY
MANAGEMENT SYSTEM
ISO 9001

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