



Q-MAC Electronics

QM9080 Field Data Terminal (FDT) with GPS Option

Tactical Communications



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 and 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 promote user confidence. The equipment is designed for both HF and VHF operations and a 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.

Tactical Data

Small Size

Simple Operation

GPS Send and Receive

Clear and Encrypted Messaging



Features

- Simple to Use
- Light Weight - 1Kg
- Low Cost
- Mil-Std Specifications
- Low Battery Consumption
- Clear and Encrypted Text
- Single and Group Messaging
- Unattended Operation
- Rebroadcast mode

QM9080M 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





Specification



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General

Dimensions:	50mm x 120mm x 198mm
Weight:	950gm
Temp:	-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,

Compatible with;



HF-90M Transceiver



VHF-90M Transceiver



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The QM9080 FDT is a CYCOM® product designed and manufactured by Cypher Research Laboratories Pty Ltd and distributed internationally under an exclusive agreement with Q-MAC Electronics Pty Ltd.

Specifications are subject to change without notice.
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