

## HF Encryption and Frequency Hopping



### [HF Digital Speech Encryptor Unit](#)

The Q-MAC QM4091M Digital Speech Encryptor is optimised for excellent speech clarity and high security over HF radio links. On air tests show the QM4091M performs very well in comparison to other handset and integrated products.



### [Digital Encryption Handset Q-MAC QM4017M](#)

The Q-MAC QM4017M HF Digital Encryption Handset provides high grade security for voice communications. The encryption unit is deployed in a Military Standard Telephone Handset commonly supplied with tactical radio transceivers. The Q-MAC QM4017M handset is designed specifically for tactical use and has been field proven with tens of thousands of units supplied to defence and law enforcement users world wide. It is equally suitable for portable tactical use and base station applications.



### [Q-MAC HF Frequency Hopping](#)

The Q-MAC HF Frequency Hopping Option is an integral module within the Q-MAC HF-90 HF SSB Transceiver. This option enables secure, jam-resistant HF communications to a military standard. The development of the Q-MAC HF-90 Frequency Hopping Option represents a significant breakthrough in the field of military HF communications. For the first time, end users have access to a product which is affordable, yet offers a very high grade of voice security.



### [Field Data Terminal \(FDT\) with GPS Option Q-MAC QM9080](#)

The Q-MAC 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 Q-MAC HF-90M radio or via field cable or phone network.



### [Secure Combat Workstation KU 894](#)

The KU-894 is designed to provide access to high end computer power, secure messaging and transmission facilities for tactical field users irrespective of the transmission medium.



### [NATO Standard Secure Field Data Terminal KU-892](#)

The KU-892 field data terminal (FDT) NATO standard (NSN 5815-66-138-0541) is designed and built in Australia and will provide error free and secure transmission of text based messages by radio, line (field cable or phone network). The unit is fully compatible with the KU-891 Combat Data Terminal and the KU-894 Secure Combat Workstation.



### [Secure Data Terminal \(Aircraft\) KU 893](#)

The KU-893A secure data terminal (Aviation) is designed for remote mounting in aircraft avionics bays or other restricted spaces in equipment shelters or armoured fighting vehicles. While suitable for use on any audio circuit the KU-893A is optimised for use on VHF/UHF/SATCOM. In addition to our standard HF radio modem this unit also provides both a black serial connection to 115Kb. Also available are an internal multi-protocol PSTN modem and a secure voice adapter.



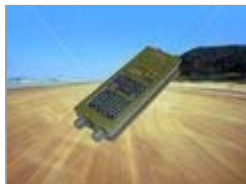
### [CODAN Voice Encryptor for HF radio communications](#)

CODAN HF SSB Voice scrambler option for CODAN NGT transceivers is a simple, practical and affordable solution for communication security (COMSEC) across High Frequency (HF) radio networks.



### **Encryptor for Tactical Radio Communications SEU 8210**

The SEU-8210 is an advanced, high security, state-of-the-art voice and data ciphering unit. The SEU-8210 effectively secures voice/data communications from unauthorised monitoring. The SEU-8210 has been designed for military use in conjunction with fixed, mobile or man-pack radio stations. Its ruggedised design makes it ideal for applications involving environmentally extreme field conditions.



### **Robust & Secure Voice/Data Terminal for HF/VHF/UHF Transceiver RI 5000**

RI-5000 can be fitted to any type of analog or digital transceivers with its advanced technologies such as unique data error correction, spread spectrum, powerful synchronization and newly developed VLBRVC technology. It provides perfect error-free real time communication in any HF Channel even under very strong gauss noise, large fading and multi-path delay and strong electronic jamming.



### **Voice Data Encryption AT Crypt One**

User defined encryption algorithms and addressing schemes can be integrated. Different waveforms according to STANAG or MIL can be downloaded for interoperability. The user can select standard waveform and protocol, custom defined or standardised procedures by local settings to ensure interoperability between different user groups. This flexibility is given by using modern FPGA technologies. The AT Crypt One can be used for V/UHF as well as for HF SSB radio channels. Channel typical behaviours like fading and Doppler effects are compensated automatically. MACH2 versions for airborne platforms are available

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[http://hf-military-tactical-radio.at-communication.com/en/hf\\_military\\_encryptors.html](http://hf-military-tactical-radio.at-communication.com/en/hf_military_encryptors.html)