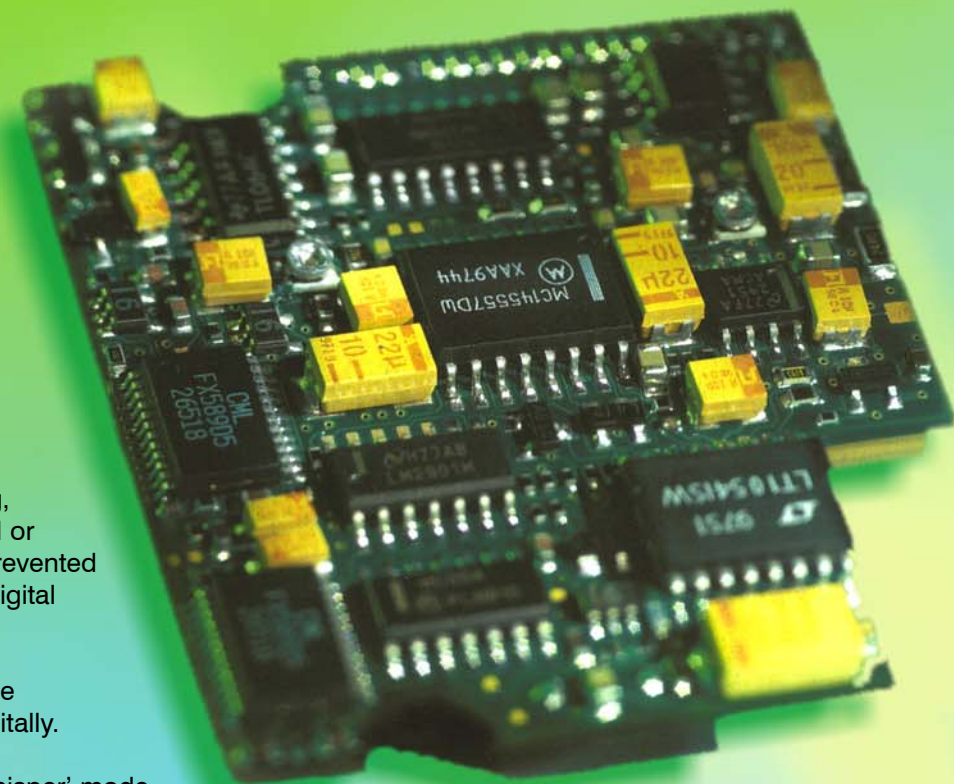


8Kbit/s Digital Encryption Module

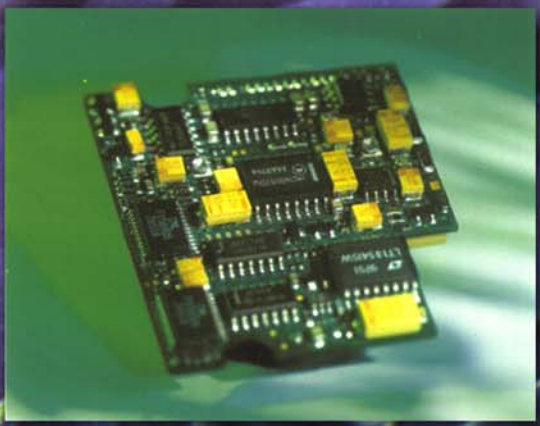
A very high degree of security, excellent speech quality and true digital transmissions - these are the key benefits available to analogue radio users from the Digital Encryption Module.

- Secure communications Eavesdropping, whether casual or malicious, is prevented by advanced digital encryption.
- Digital Radio Transmissions Encrypted voice transmitted digitally.
- Whisper mode Performs in 'whisper' mode. So users can be confident their message is getting through.
- Enhanced signal quality Robust coding and synchronisation techniques mean that the radio system will work well under poor signal conditions.
- Dual mode The module operates in either clear analogue or secure digital mode.
- Versatile Small size directly resulting from the use of a unique single chip encoder/decoder enables retrofitting or designing into existing radios. The low power requirements for processing have minimal effect on battery life.
- System management The encryption is supported by a comprehensive PC-based management system which provides crypto key management and radio programming.

UK CESG approved



Don't let your secrets slip through the net.



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SMC Secure Digital Radio

- Secure digital modes
- Enhanced signal quality

SMC engineering communication systems



...prevents your secrets from escaping.

SMC Encryption. Converts an insecure analogue radio system into a highly secure digital system.

Eavesdroppers are everywhere

Analogue radio is wide open to eavesdropping; interception scanners are available in the marketplace.

Conventional scramblers are becoming increasingly vulnerable to sophisticated intrusion, the digital solution to this problem has, until now, been costly. South Midlands Communications have developed a cost effective answer; which completely closes the net.



Available within a range of SMC supplied handheld and mobile radios, without modification to their outer casings.



The secret is in the module:

By building a unique Digital Encryption module into an analogue radio system, a very high degree of security is achieved, using existing proven hardware as an economic and highly reliable basis for the system. The module converts the handset, mobile unit, base station and repeater to "secure digitally encrypted" radios.

The single chip encoder/decoder saves space and has low power requirements, thereby maximising battery life.

Eavesdroppers hear only 'white noise', while intended listeners hear clearly, even with poor signal conditions. This state-of-the-art module will stay one step ahead, providing long term security against the most determined attack; and all this at a modest cost.

The encrypted voice

The encrypted voice is transmitted digitally, modulation. Thanks to a digital sub-band coder, background noise is low and voice recognition easy, even in whisper mode.

One-to-one or one to an entire network

Radios can be programmed with unique identities to allow selective calling. The digital bit/s coding permits good spectral containment within each radio channel and gives you more available channels. Within the permitted group of listeners you can select one or any number, due to a PC-based crypto key management system.

Digitally equipped SMC radios provides users with a cost effective, highly secure, robust, digital radio system.

A total system solution

- Handheld
- Mobile
- Base station
- Repeaters
- Security Management
- Crypto management

A wide choice of accessories is available to work with the DM8000.

