

### DigiSAFE MobileCrypt

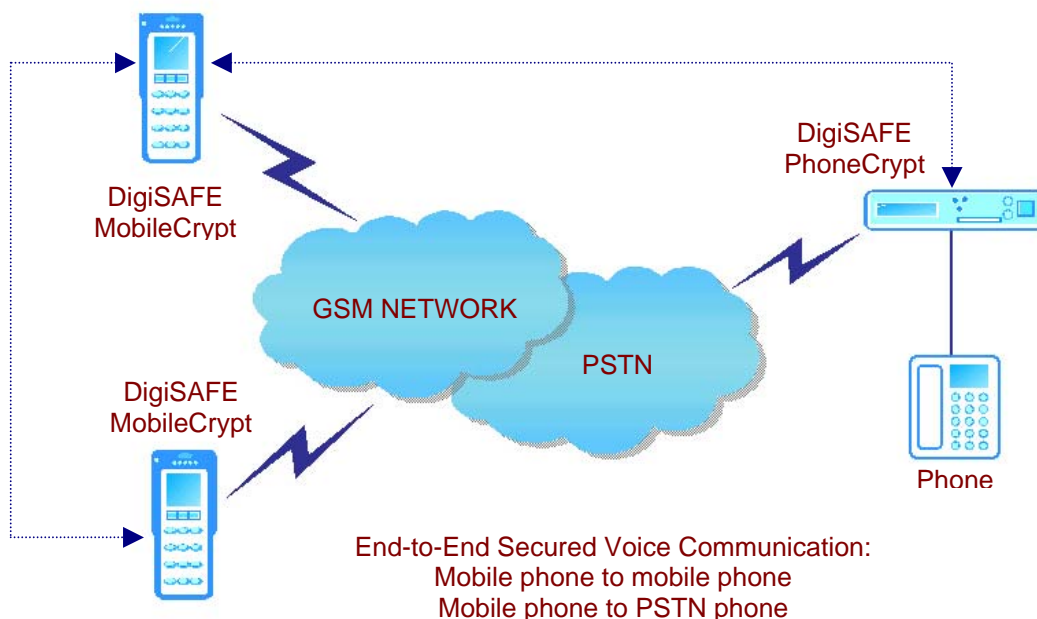
- Supports handset from Nokia model 8210, 8250, 8310
- Use of IrDA eliminates messy cable
- Operates over 9.6kbps GSM data channel
- Supports strong encryption algorithms (3DES or SAFER SK-128)
- Fully automatic Diffie-Hellman public key management
- Interoperable with DigiSAFE PhoneCrypt telephone encryptor
- Employs AMBE-based vocoder for toll-quality voice



**DigiSAFE MobileCrypt** is a GSM voice encryptor that works with your favorite handset from Nokia to provide state-of-the-security. It combines the latest voice processing and encryption technique into one compact, user-friendly and portable unit to provide high level of security without compromising voice quality. The AMBE-based vocoder delivers toll quality voice even under sub-optimal connections and noisy background.

**MobileCrypt** protects sensitive voice conversation by using either 168-bit 3DES or 128-bit SAFER-SK128 encryption algorithm. It operates with another **MobileCrypt** for GSM-to-GSM conversation or with DigiSAFE PhoneCrypt for GSM-to-PSTN conversation. Diffie-Hellman public key technology is used to derive a unique session key for each new call between a pair of DigiSAFE MobileCrypt that have been configured with a common group parameter.

To operate the encryptor, user simply slots the mobile phone into the MobileCrypt holder and the link between the two devices is established through the IrDA ports, eliminating the need for messy cables. A hand-free kit attached to the output jack of the **MobileCrypt** is required to make a secure call. The user dials directly from the mobile phone keypad.



## Specifications

### General

- Dial using handset keypad
- Secure Conversation upon connection with another MobileCrypt or PhoneCrypt
- AMBE-based Vocoder
- Supports GSM handsets with standard IrDA communication Port or built-in modem (e.g. Nokia 8210, 8250 and 8310)
- Operates over 9.6kbps GSM Data Channel

### Cryptography

- Supports either 168 bit 3DES or 128 bit SAFER-SK128
- Unique synchronization technique
- Optional support for customer's customized algorithm

### Key Management

- Automatic Diffie-Hellman
- Unique session key for each new connection
- Built-in hardware random number generator
- Works with DigiSAFE KMC\*

### Security

- Anti-tampering design
- Emergency key erase feature

### Operating Modes

- Secure mode only – user's voice vocoded & transmitted encrypted through data channel

### Operating Environment

- Operating temperature: 0°C to +50°C
- Relative Humidity: 0 – 90%
- Meets FCC part 15, subpart J (Class B) EMI/RFI requirements

### Interface

- IrDA Port (for communication with mobile phone and key loading)
- Ear piece and microphone input jack for external hands-free kit

### Electrical & Mechanical

- Power Source: 1 x Rechargeable Lithium ion battery (Built-in, non-user replaceable)
- Standby time: 24 – 48 hrs
- Talk time: approx 2 hrs\*\*
- Size (mm): 130L x 57W x 36D

\*DigiSAFE KMC (Key Management Center) is available separately

\*\*Varies with individual handset and battery specifications

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