

GSM Secure Phone



For ciphered and clear mobile

For ciphered and clear mobile communication with certified security and technology.

The SEU-8500 GSM Secure Mobile satisfies the highest demands on design, technology and functionality.

General / Technology

- **GSM 900 / 1800 MHz dual-band phone**
- **State-of-the-art chip set technology**
- **High performance encryption processor**
- **Second smart card reader**
- **Supports relevant ISO-standards**
- **Approx. 250 hrs. standby time**

Cryptographic features

- **Use of published powerful algorithms**
- **RSA-1024 for authentication, key exchange and remote management**
- **IDEA-128 and AES-256 for online ciphering**
- **Cryptological algorithms (RSA) are calculated within the chip card only**

Standard utilisation of the chip card with operating system TCOS-2x

- **X.509 V3 certificates on chip**
- **PKCS #1 signatures (authentication and management)**

The unit operates on a „plug- and- play“ basis. In addition, management can be formed into closed user groups by using unambiguous call signs or special company cards

- Black List, White List, Closed User Groups
- Closed user groups with company cards

Highlights

- **Secure key management with chip cards**
- **Smart cards evaluated to ITSEC E4+, mechanism strength high (hardware and software)**
- **Hardened against sophisticated side-channel attacks.**
- **Key generation through certified trust centres (corresponds to the extremely high requirements of the signature law)**
- **Authentication with patented and publicised authentication system**
- **Online ciphering using session keys with AES-256 and IDEA-128 algorithm**
- **Session key generation with evaluated and certified true-random number generator on the chip card**
- **A new session key is generated for each connection, which has no relation whatsoever to previous generations**
- **Secret keys cannot leave chip card under any circumstances**
- **Plug-and-play: Fully automatic operation without management activities**
- **Formation of closed user groups with company chip cards. Thus, as a rule, no management is required**
- **Extended management functions: remote management, local management. Customised**

CA-Infrastructure available.

- **Works with SEU-8420+ base station**

GSM Secure Phone | GSM Encryption

http://crypto-gsm.at-communication.com/en/secure/seu_8500.html