CRYPTOPHONE™

GSMK CryptoPhone 450
Secure IP Mobile Phone with Voice & SMS Encryption

IP

TECHNICAL SPECIFICATIONS

Radio
GSM quad-band 850/900/1800/1900 MHz • UMTS HSDPA / WCDMA 850/1900/2100 MHz with HSUPA support • up to 2 Mbps uplink, up to 7 Mbps downlink speed

Voice Encryption
Secure voice over IP communication on any network – GSM, 3G, WLAN • strongest and most secure algorithms available today – AES256 and Twofish • 4096 bit Diffie-Hellman key exchange with SHA256 hash function • readout-hash based key authentication • 256 bit effective key length • encryption key is destroyed as soon as the call ends

Message Encryption
Based on the same strong encryption algorithms used for GSMK CryptoPhone voice encryption – 4096 bit Diffie-Hellman initial key exchange, AES256 and Twofish message encryption with 256 bit effective key length. Supports long SMS and encrypted self-destructing "Eyes Only" SMS.

Device Protection
Encrypted storage system for contacts, messages, notes and keys with smart folders protects confidential data against unauthorized access • hardened WM 6.5 operating system with granular security management and streamlined, security-optimized components and communication stacks protects device against outside attacks

GSMK CryptoPhones are the only secure mobile phones on the market with full source code published for independent security assessments. They contain no »proprietary« or »secret« encryption, no backdoors, no key-escrow, no centralized or operator-owned key generation, and require no key registration.

Interoperability
Fully compatible with all GSMK CryptoPhone IP mobile, satellite and fixed-line encryption products • IP PBX integration with virtual extensions

Trustworthy Voice & SMS Encryption

The CryptoPhone 450 comes with full source code available for independent review. Finally, you can perform an independent assessment to ensure that you can rely on strong encryption without any backdoors in the communications device that you entrust your security to. The GSMK CryptoPhone 450 enables you to put the trust where it belongs – in a trustworthy, open and scientific verification process.

GSMK CryptoPhone technology is based on well-researched algorithms for both encryption and voice processing. It features the strongest encryption available combined with key lengths that provide peace of mind today and in the future.

Operational Features
Talk time up to 6 hours (up to 12 hours with extended battery) • standby time up to 250 hours (up to 500 hours with extended battery)

Dimensions & Weight
129 x 60.4 x 16.5 mm (129 x 60.4 x 21.5 mm with extended battery) • 156g / 5.5oz. incl. battery (189g/ 6.5oz. with extended battery) • integrated antenna

Display
3-inch sunlight-readable touch-sensitive TFT LCD screen with LED backlight @ 640 x 480, 64k colors

Keyboard / Buttons
QWERTY keyboard • dedicated talk / hang-up, volume up/down & camera capture buttons • optical nav pad • biometric fingerprint sensor

Connectivity
Integrated microUSB 2.0/power connector • 2.5mm stereo audio jack • microSD memory card slot, SD2.0 compatible • Bluetooth Class II V2.0 with Enhanced Data Rate • GPS • IEEE 802.11 a/b/g Wireless LAN

Audio Codecs
Encrypted calls: CELP and ACELP® VLBR4 Decoding & playback: WAV, WMA, AMR-NB, AMR-WB, AAC, AAC+, eAAC+, QCP, M4A, MP3, MIDI, polyphonic ring tones

CMOS Camera
3.2 megapixels resolution with auto focus and integrated 1D and 2D bar code decoding (can be completely disabled upon request)

Standards Compliance / Operating Conditions
CE, FCC, UL, MIL-STD 810-G and IP42 compliant • shock, water, dust and vibration resistant • operating temperature 0° C to +50° C / 32° F to 104° F • operating altitude up to 4.572m / 15.000 ft • humidity up to 95%
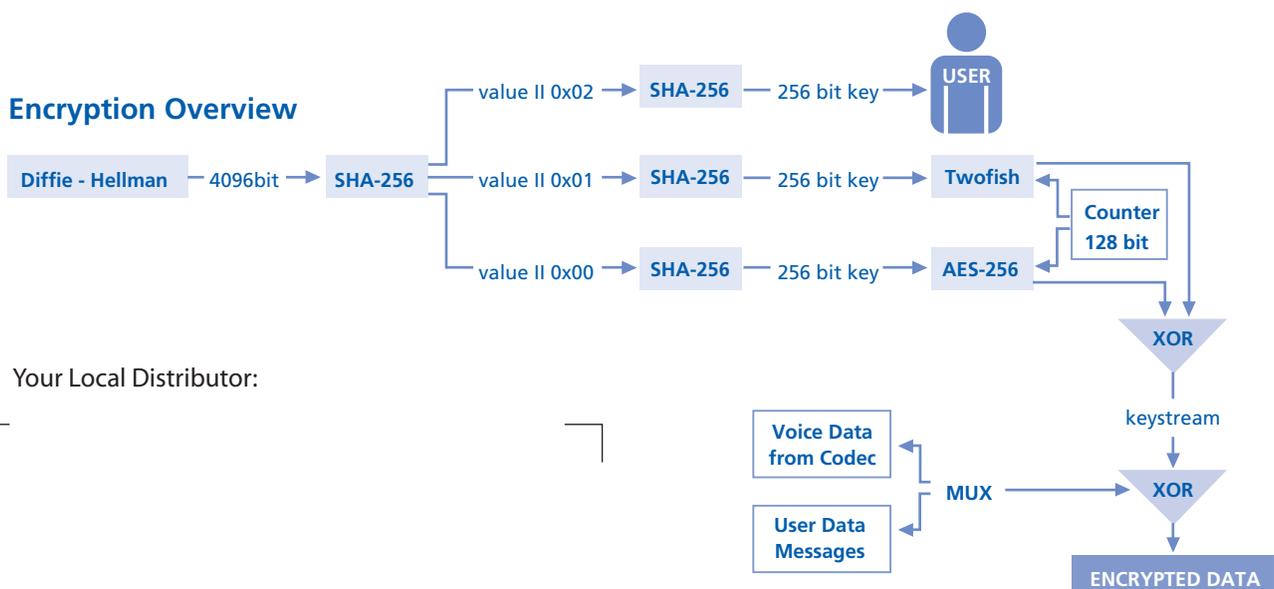
Standard Accessories
100-240V AC adapter • USB sync cable

Optional Accessories
12 / 24V vehicle charger • vehicle holder • high capacity battery kit • USB charging cradle

Encryption Overview

Your Local Distributor: