GSMK **Crypto**Phone 600G

Talking like eye to eye...

Secure IP mobile phone with Voice & Message Encryption and with 360° mobile device security

TECHNICAL SPECIFICATIONS

Voice Encryption

Secure end-to-end encrypted voice over IP calls on any network - GSM, 3G, 4G, WLAN • strongest and most secure algorithms available today – *AES256* and *Twofish* • 4096 bit *Diffie-Hellman* key exchange with S*HA256* hash function • readout-hash based key authentication • 256 bit effective key length • encryption key is destroyed as soon as the call ends.

Secure Messaging

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 key length.

Device Protection

1. *Hardened operating system* • Secure Android OS built from source code with granular security management and streamlined, security-optimized components and communication stacks.

2. *Baseband firewall 2.0* • Unique protection against over-the-air attacks with constant monitoring of baseband processor activity • Baseband attack detection and initiation of countermeasures • Detection of attempts to track the user's location via SS7 or silent SMS.

3. *Configurable OS security profiles* • Hardware module controller and permission enforcement module control access to network, data and sensors (camera, microphone, etc.), keeping you in control of your individual security policies.

4. *Encrypted storage system f*or contacts, messages and notes with smart folders protects date at rest against unauthorised access.

5. *Tamper-resistant, tamper-evident hardware design.* Dedicated hardware security modules with CPU supervisor, watchdog timer, on-chip temperature sensor and removal-resistant coating; Shield removal detection circuitry and Environmental Failure Protection (EFP) for temperature, voltage, internal clock frequency, and duty cycle provided by immediate reset circuitry; Supports the highest FIPS 140-2 and Common Criteria security level requirements.

6. *IP67 water and dust protection; Shock resistant MIL-STD-810G; Extremely durable mechanical design.*

360° security - armored and encrypted

The CryptoPhone 600G is a highly secure mobile phone that 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 with your confidential data and telephone calls. The GSMK CryptoPhone 600G enables you to put the trust where it belongs – in a trustworthy, open and scientific verification process.

GSMK CryptoPhone encryption technology is based on strong, well-researched algorithms combined with key lengths that provide peace of mind today and in the future.

Trusted Platform Module (TPM) for platform measurement and attestation

Trusted Computing Group (TCG) TPM specifications level 2 version 1.2, revision 116 • Active shield and environmental sensors • Memory Protection Unit (MPU) • Hardware and software protection against fault injection.

Verifiable Source Code

GSMK CryptoPhones are the only secure mobile phones on the market with source code available for independent security assessments. This permits individual source code audits in accordance with national and international verification and certification standards designed to verify device integrity mechanisms, correct implementation of all encryption algorithms, and the absence of backdoors.

Interoperability

Fully compatible with all GSMK CryptoPhone IP devices (mobile, landline, satellite) and GSMK CryptoPhone IP PBX Gateways. Also you can use it as usual GSM mobile phone.

Radio

GSM/GPRS/EDGE (850/900/1800/1900 MHZ), UMTS/HSDPA+ (B1, B2, B4, B5, B8), LTE advanced (3GPP, FDD, IMS, VoLTE, Carrier Aggregation, B2, B3, B4 , B5, B7, B13, B14, B17, B20).

Display

5" Full HD (1920 x 1080)LCD, Glove-usable capacitive touch, functional in wet conditions.

Processor

Qualcomm Snapdragon 801, CPU Quad-core 2,3 Ghz, graphics accelerator, QDSP.

Operational Features

Removable Li-Ion 2700 mAh battery • Standby time up to 48 h • talk time up to 10 h.

Digital Camera

8 MP with Autofocus and LED Flash • 2 MP for front facing applications • Full HD video capture and playback • cameras can be completely disabled by hardware module controller.

Dimensions & Weight

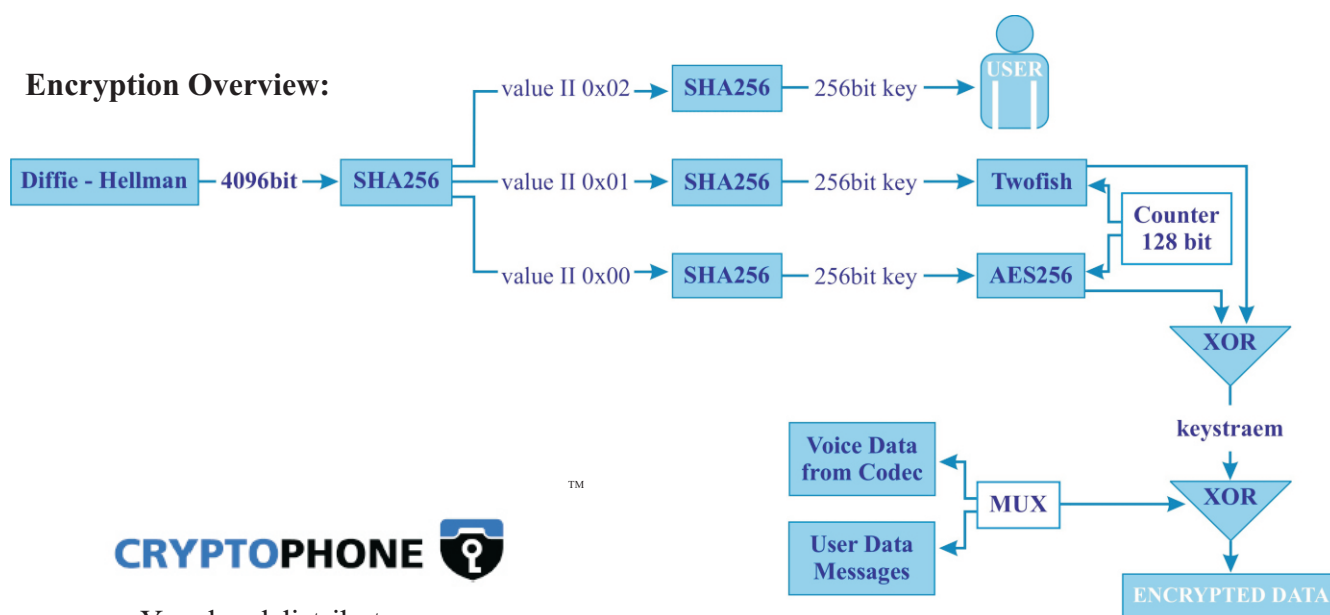141 x 75,5 x 13,5 mm • 180 g incl. battery • integrated antenna.

Connectivity

Integrated microUSB 3.0/power connector • 3,5 mm stereo audio jack • microSD memory card slot-microSDHC • transFlash, microSDXC compatible • IEEE 802.11 a/b/g/n/ac Wireless LAN.

Standard Accessories

100-240V AC adapter • USB sync cable.

Encryption Overview:

CRYPTOPHONE ™

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