GSMK **Crypto**Phone 500i

Talking like eye to eye...

Secure IP mobile phone with Voice & SMS 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.

Verifiable Source Code

GSMK CryptoPhones are the only secure mobile phones on the market with full source code available for independent security assessments. They can be verified to be free of backdoors, free of key-escrow, free of centralized or operator-owned key generation, and they require no key registration.
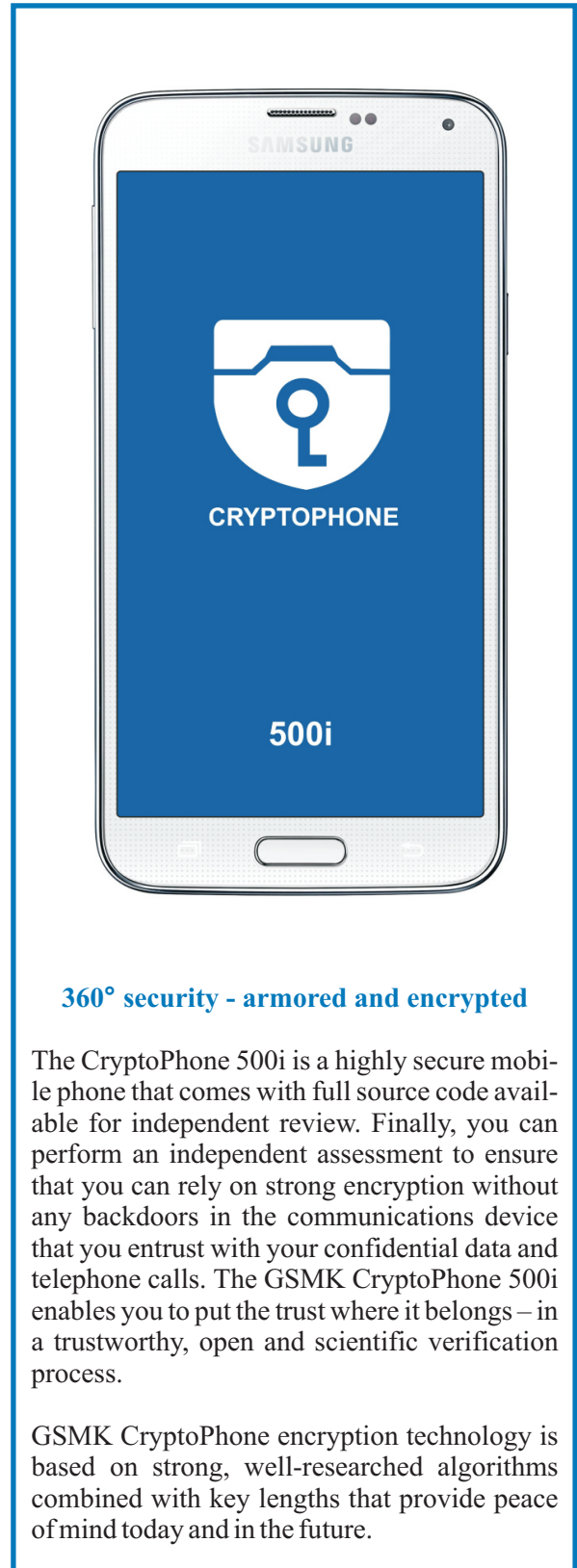
360° security - armored and encrypted

The CryptoPhone 500i 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 500i 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.

Radio
GSM quad-band 850/900/1800/1900MHz • 3G UMTS HSDPA/W-CDMA 850/900/1900/2100 MHz with HSUPA and HSPA+ support • 4G LTE 800/850/900/1800/2100/2600 Mhz • Data rates up to 150 Mbps supported.

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

Processor
Qualcomm Snapdragon 801, CPU Quad-core 2,5 GHz.

Operational Features
Removable Li-Ion 2800 mAh battery • Standby time up to 48 h • talk time up to 10 h.

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.

Display
5.1-inch sunlight-readable touch sensitive HD Super AMOLED screen @ 1920 x 1080 pixels, 24 bit color depth • Corning Gorilla glass 3.

Digital Camera
Main camera with 15,9 megapixels resolution (5.312 x 2.988) with auto focus, built-in flash and integrated 1D and 2D bar code decoding • front camera with 2,1 megapixels resolution (1.920 x 1.080) • cameras can be completely disabled by hardware module controller.

Dimensions & Weight
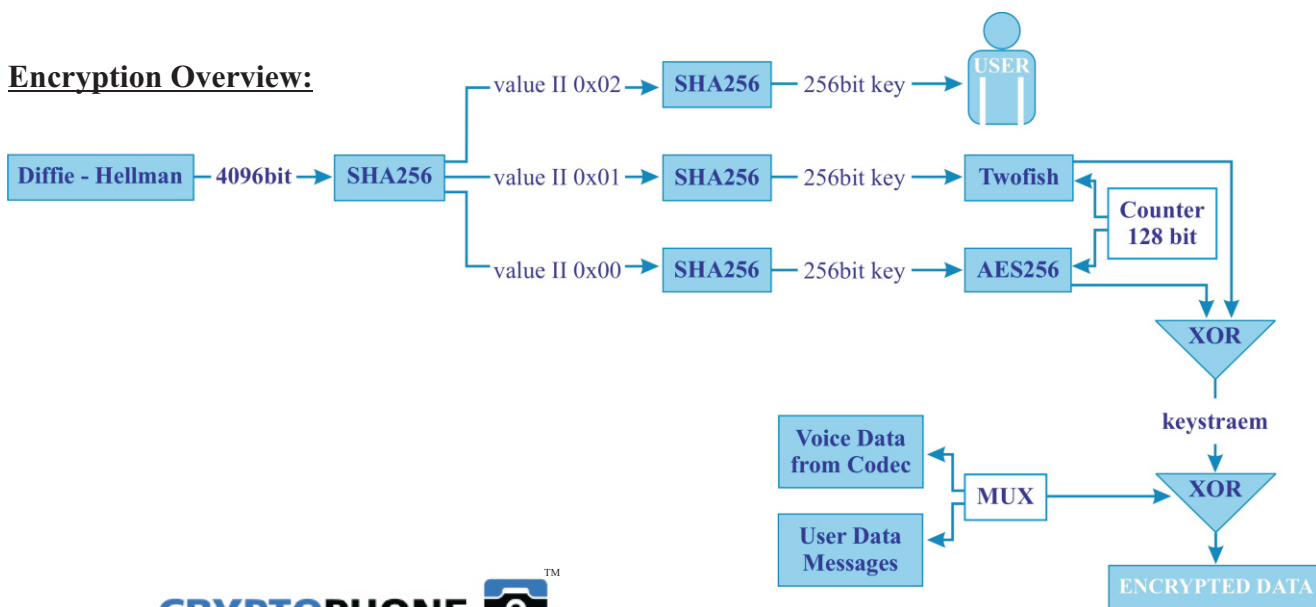142 x 72,5 x 8,1 mm/ 5,6 x 2,9 x 0,3 inches • 145 g/ 5,1 oz. incl. battery • integrated antenna.

Standard Accessories
100-240V AC adapter • USB sync cable.

Optional Accessories
12/24V vehicle charger • vehicle holder • USB docking station.

Encryption Overview:

CRYPTOPHONE