

## GSMK CryptoPhone® 700

Secure mobile phone for professional users with 360° protection, hardened operating system, Baseband Firewall, hardware security modules, and end-to-end voice and message encryption

### Secure Calls

Secure end-to-end encrypted voice over IP calls on any network – from 2G to 5G • Strongest and most secure algorithms available today – AES256 and Twofish • 4096 bit Diffie-Hellman key exchange with SHA-256 hash function • Readout-hash based key authentication • Autonomous key generation, no pre-installed key material • Encryption keys securely and immediately erased from the device after each call

### 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 keys

### Device Protection

#### Hardened operating system with secure boot

Secure Android OS built from source code with granular security management and streamlined, security-optimized components and communication stacks • Seamless secure boot chain featuring secure boot, kernel, recovery, kernel object and APK signature keys • All software signed with keys stored inside Common Criteria EAL4+ compliant security chip

#### Baseband Firewall 3.0

Unique protection against over-the-air attacks with constant monitoring of baseband processor activity • Baseband attack detection and initiation of counter-measures • Automatic discovery of IMSI Catchers and rogue base stations • Detection of attempts to track user location via SS7 or silent SMS

#### Encrypted storage system

Unique two-layer data encryption scheme protects data at rest against unauthorized access • Fully encrypted file system with key storage inside EAL4+ compliant hardware security chip - keys never leave the chip, but are exclusively used in on-chip cryptographic operations • Dedicated, fast-locking secure storage container for secure messages, contacts, and notes



### Latest-generation hardware security modules

Dedicated hardware security modules with hardened security chip supporting the highest Common Criteria EAL4+ with AVA\_VAN.5 extensions and FIPS 140-3 security requirements • SoC security core with dedicated CPU, ROM, one-time-programmable (OTP) memory, cryptographic modules, internal SRAM, and protected DRAM

### 360° Security: End-to-end encrypted voice and messaging on a fully armored platform

- High-assurance CryptoPhone security
- IP68 water and dust protection
- Verified hardware and software integrity
- Hardened Android operating system
- Patented baseband processor protection
- Developed in Germany

## 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

## Compatibility

Fully compatible with all GSMK CryptoPhone IP secure mobile, desktop and satellite phones, including all GSMK CryptoPhone 400, 450, 500/500i and 600 series secure mobile phones, GSMK CryptoPhone IP19 and 20 secure desktop phones, and GSMK CryptoPhone IP PBX Gateways

## Technical Data

S5E9855 (GS201) 64-bit octa-core CPU, 8192 Kbyte L2, 4096 Kbyte L3, ARM Mali-G710MP7 GPU

## Radio

GSM/GPRS/EDGE (850/900/1800/1900 MHz),  
UMTS/HSDPA+ (B1, B2, B4, B5, B6, B8, B19),  
LTE Advanced (3GPP, FDD, IMS, VoLTE, Carrier Aggregation, B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B29, B30, B38, B40)  
5G NR (Sub-6 N1, N2, N3, N5, N7, N8, N12, N14, N20, N25, N28, N30, N38, N40, N41, N48, N66, N71, N75, N76, N77, N78)

## Connectivity

USB Type C connector with USB 3.2 Gen 2 (fast charging),  
USB Power Delivery 2.0/3.0, Wi-Fi 802.11 a/b/g/n/ac/ax

## Display

6.3" (1080\*2400) Color AMOLED, 416 ppi

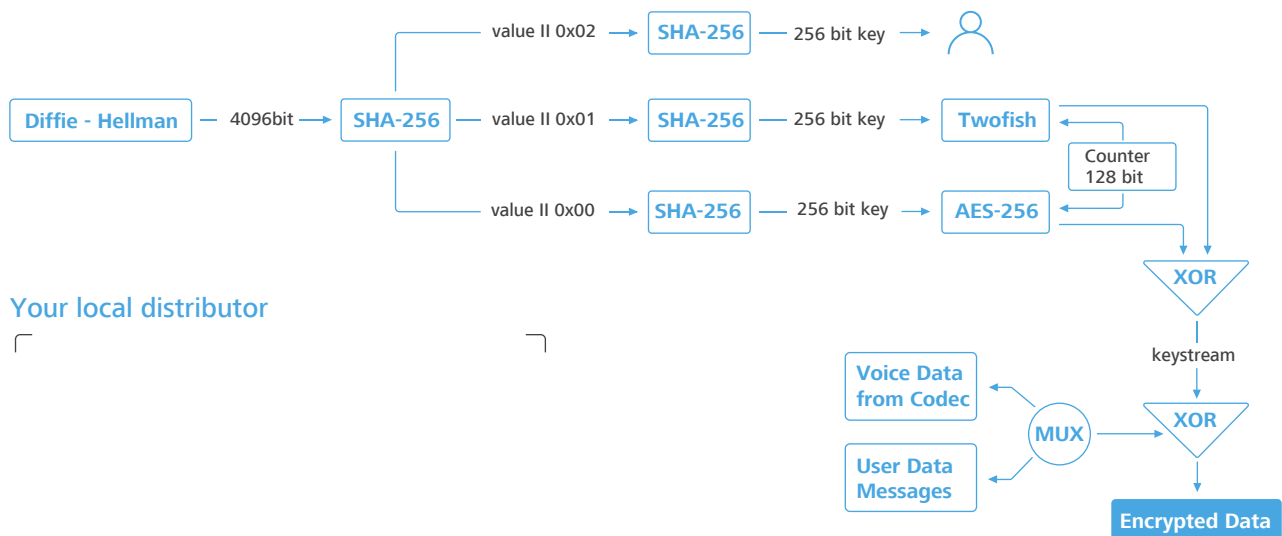
## Camera

50 MP with phase-detection autofocus and LED flash,  
10,8 MP for front facing applications, 3840\*2160 video capture and playback, both cameras can be disabled

## Mechanical

Dimensions 155,6 mm \* 73,2 mm \* 8,7 mm  
Weight 197 g

## Encryption Overview



## Your local distributor

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