

GSMK CryptoPhone® 600G

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

Secure Calls

Secure end-to-end encrypted voice over IP calls on any network – 2G, 3G, 4G, WLAN • 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 and device runtime integrity checks

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 • Runtime checks of core applications and services ensure that only signed and trusted code is loaded on the device

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

Baseband Firewall 2.0

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



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

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

- High Assurance CryptoPhone Security
- IP67 water and dust protection
- MIL-STD-810G shock resistant
- Glove-usable touch screen
- Extremely durable mechanical design
- Full source code available for review
- Hardened Android OS
- Emergency erase function
- Made in Germany

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

Encrypted Storage

Encrypted storage system for contacts, messages, and notes with smart folders protects data at rest against unauthorized access

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 IP19 series secure phones as well as GSMK CryptoPhone IP PBX Gateways

Technical Data

Quad-core Krait CPU 2.3GHz, graphics accelerator, QDSP, microSD card slot

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)

Connectivity

USB 3.0 (fast charging), Wi-Fi 802.11 a/b/g/n/ac, accessory interface for connecting custom extension modules, such as sensor accessories, TETRA or tactical radio modules, docking station, car charger and satellite modules

Audio

High-performance speakers, multi-microphone ANC

Display

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

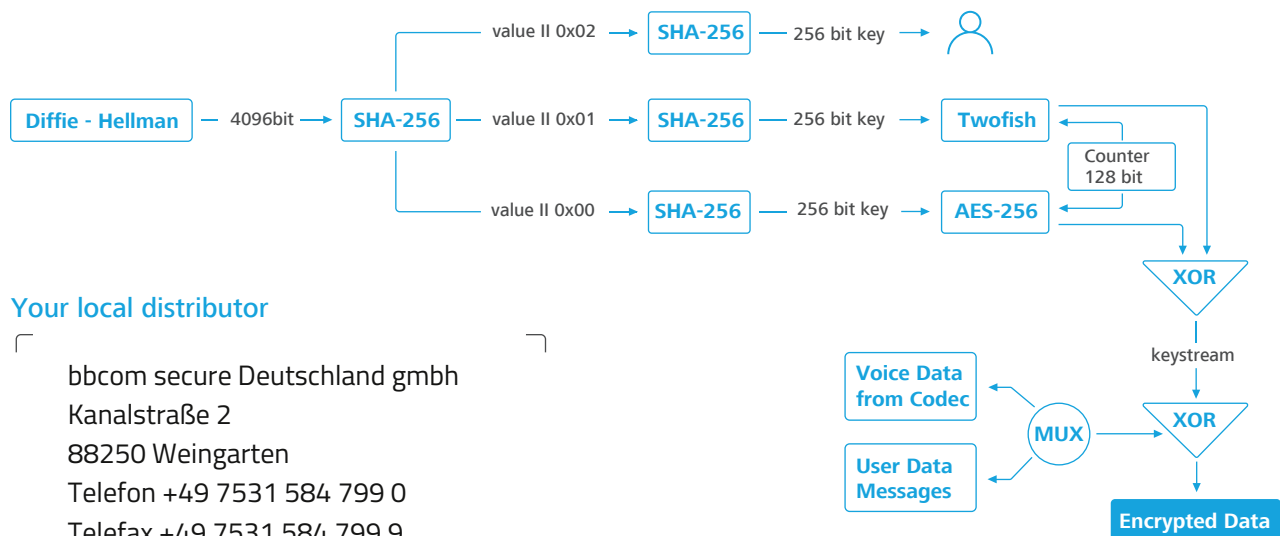
Camera

8 MP with Autofocus and LED Flash, 2 MP for front facing applications, Full HD video capture and playback, both cameras can be disabled

Mechanical

Dimensions 141mm x 75,5mm x 13,5mm, Weight 180g, IP67 rating, MIL-STD-810G shock resistant Temperature range -20°C to +55°C (-4°F to 131°F)

Encryption Overview



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