



## GSMK CryptoPhone® CP20

Secure desktop phone for professional users  
with 360° protection, hardened operating system,  
and end-to-end voice and message encryption

### Secure Calls

Secure end-to-end encrypted voice over IP calls •  
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 security-optimized  
components and communication stacks protects  
device against outside attacks

### Encrypted Storage

Encrypted storage system for contacts and messages  
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

### Design

State-of-the-art graphical user interface for  
convenient operation combined with future-proof  
and reliable hardware

### Compatibility

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



### 360° Security: End-to-end encrypted voice and messaging

- High Assurance CryptoPhone Security
- Innovative graphical user interface
- 5"/12.7cm TFT display with capacitive touch
- 15 programmable function keys
- Future-proof platform
- Full source code available for review
- Hardened operating system
- Made in Germany

## Technical Data

Future-proof CPU platform and hardware design

### Interfaces

- Gigabit Ethernet interface (RJ-45)

### Power Supply

- Power consumption 3.3W min.
- PoE, IEEE 802.3af (Class 0)
- External power supply (100-240V, 50/60Hz)  
(C13 connector with country-specific plug)

### Audio

- Handset with Hearing Aid Compatibility (HAC)
- Dynamic microphones

### Display

- 5"/12.7cm (800\*480) Color TFT LCD  
(angle adjustable)
- Capacitive touch
- LED call indicator

### Hook Switch

- Solid state hook switch

### Keyboard

- 15 programmable keys
- 5-way navigation element, dial pad and  
12 function keys (DND, volume, menu, mute)

## Mechanical

- Dimensions 275 mm x 148/170/190 mm x 210 mm
- Weight 1.450g / 3.2lbs (incl. power supply)

## Type Approvals

CE, FCC (FCC 47 CFR Part 15B), Canada: ICES-003  
(Issue 6:2016)

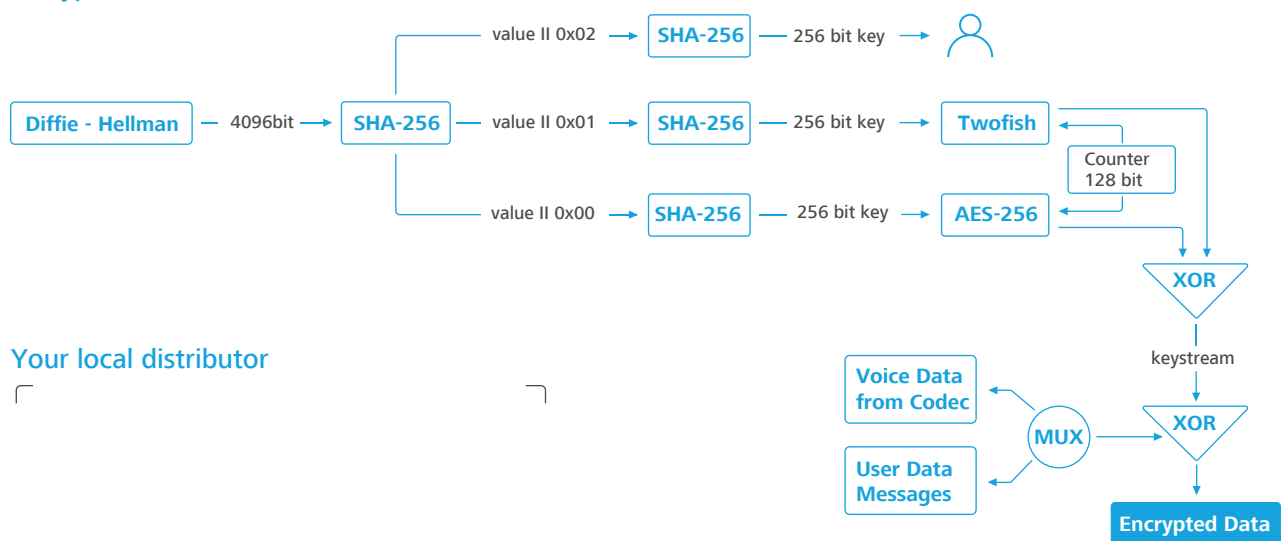
## Color

Black Carbon

## Product Code

7600.020

## Encryption Overview



## Your local distributor

GSMK - Gesellschaft für Sichere Mobile Kommunikation mbH  
Marienstrasse 11, 10117 Berlin, Germany

Phone +49 30 24 62 500-0  
Fax +49 30 24 62 500-1

Web [www.cryptophone.com](http://www.cryptophone.com)  
Email [sales@cryptophone.de](mailto:sales@cryptophone.de)