GSMK CryptoPhone
IP PBX Gateway

Talking like eye to eye...

Integrate CryptoPhone voice encryption into existing IP PBX environments

The GSMK CryptoPhone PBX Gateway is a compact all-in-one appliance for implementig seamless encrypted communication between headquarters and the mobile workforce all over the world.

Large enterprises as well as government agencies need their members to be able to work together efficiently and securely in a closed user group.
While mobile users and remote offices can easily be equipped with individual GSMK CryptoPhone secure mobile, satellite and desktop phones, enabling large headquarters with hundreds of extensions to communicate securely can be a logistical challenge.

The Solution
With the GSMK CryptoPhone IP PBX Gateway, one single all-in-one appliance connected to your existing IP PBX gives your entire workforce access to encrypted calling.
Deployed extensively in enterprise headquarters, government departments and embassies around the globe, the GSMK CryptoPhone IP PBX Gateway allows entire headquarters to communicate securely with managers, engineers, ambassadors and agents overseas.

Voice encryption: strongest and most secure algorithms available today – AES256 and Twofish; 4096 bit Diffie-Hellman key exchange with SHA256 hash function; GSMK CryptoPhones are the only secure mobile phones on the market with full source code published for independent security assessments; readout-hashbased key authentication; 256 bit effective key length; encryption key is destroyed as soon as the call ends; no "proprietary" or "secret" encryption, no backdoors, no key-escrow; no centralized or operator-owned key generation, no key registration, no extra "security SIM".

360° security - armored and encrypted

The GSMK CryptoPhone IP phones are a highly secure phones 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 IP phones 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.

System Key Features

• **Seamless encryption between mobile, satellite, landline and PBX connected phones**
• **Use PBX added features and conferencing**
• **Connection to any PBX via SIP-Trunk**
• **Graphical UI - intuitive system handling**
• **Up to 100 parallel simultaneous connections**
• **Lowest bandwidth on the market: 4.8 kbit/s**
• **works even under adverse network conditions**
• **High-end industrial grade hardware for easy deployment (HP Pro Liant 360 Gen9)**
• **Custom SLAs on request**

Technical data:

GSMK CryptoPhone PBX Gateway: High-grade applicance, HP ProLiant, Gen9, Intel Xeon ES-2600 v3, DDR4 SmartMemory, SSD drives and dual PSU.

Interfaces: 331i Ethernet Adapter, 4x1GBit for M2M (maintenance), SIP and Cryptophone IP connection

Industry Standard Compliance:
- ACPI 2.0b Compliant
- PCIe 3.0 Compliant
- PXE Support
- WOL Support
- USB 3.0 Support
- Energy Star
- ASHRAE A3/A4

Dimensions: 1U Rack form factor, Width 43,47cm (19"), Length 70cm (27.5"), 12.25 kg.

Hardware Warranty: HP 3 years limited warranty on parts and labour

Concurrent connections: 100 simultaneous calls.

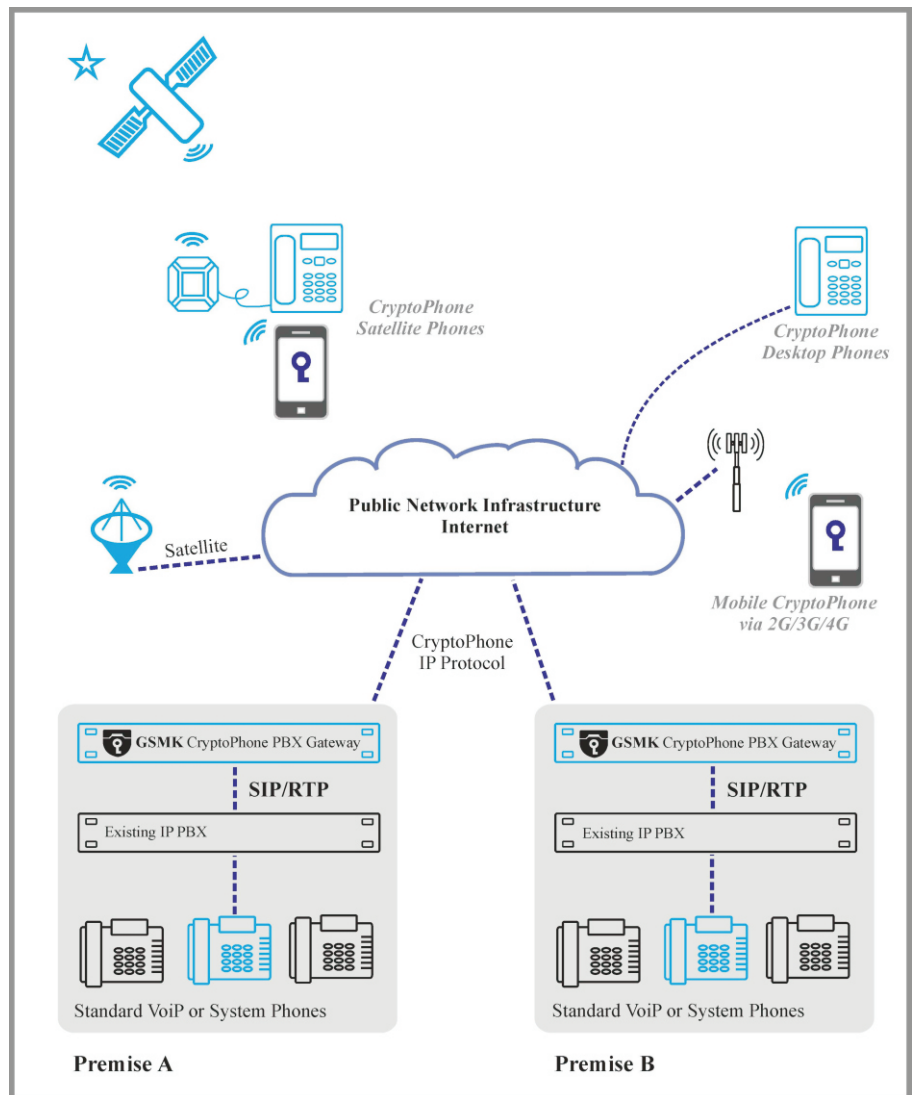**Voice Codec:** ACELP VLBR4 codec (towards Cryptophones).

Protocols:
- SIP and SIPS support (RFC 3261)
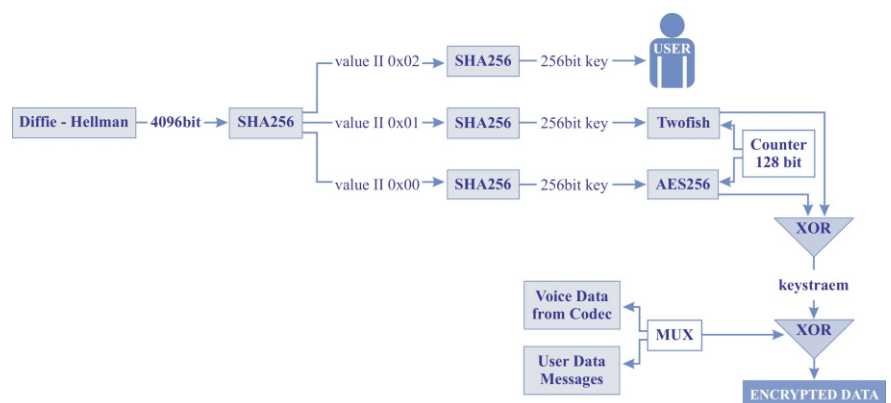- RTP and SRTP support (RFC 3550 and RFC 3711).

GSMK CryptoPhone IP PBX Gateway Compatibility:
GSMK IP Cryptophones
- Cryptophone Mobile Generation 4xx, 5xx, 500i, 6xx
- Cryptophone Desktop Phones IP 19, IP20
- Cryptophone Satellite Phones

Public Network Infrastructure Internet

CryptoPhone Satellite Phones

CryptoPhone Desktop Phones

Mobile CryptoPhone via 2G/3G/4G

Satellite

CryptoPhone IP Protocol

GSMK CryptoPhone PBX Gateway

SIP/RTP

Existing IP PBX

Standard VoiP or System Phones

Premise A

Premise B

Encryption Overview:

Your local distributor:
UAB "Darseta"
Tel.: +370 68538839
E-mail: *darseta@darseta.lt*
Web: *www.darseta.lt*