

# GSMK Cryptophone PBX Gateway

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### Integrate CryptoPhone voice encryption into existing IP PBX environments

The GSMK CryptoPhone PBX Gateway is a compact all-in-one appliance for implementing 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 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 PBX Gateway allows entire headquarters to communicate securely with managers, engineers, ambassadors and agents overseas.

### Value

The GSMK CryptoPhone PBX Gateway offers a striking value proposition by combining low investment costs with substantially increased speed and process efficiency.

### Architecture

The GSMK CryptoPhone PBX Gateway is based on Erlang as the international standard for professional carrier-grade telecommunication equipment.

### Encryption

The GSMK CryptoPhone system uses the strongest and most secure algorithms available today: AES256 and Twofish with 256 bit effective key length and 4096 bit Diffie-Hellman key exchange. The encryption key is destroyed as soon as the call ends, and no log files are kept on the switching equipment.

### Deployment

GSMK supports its customers before, during and after deployment with an advanced requirement analysis, full deployment support, training, and tailor-made SLAs.

## Lab Version

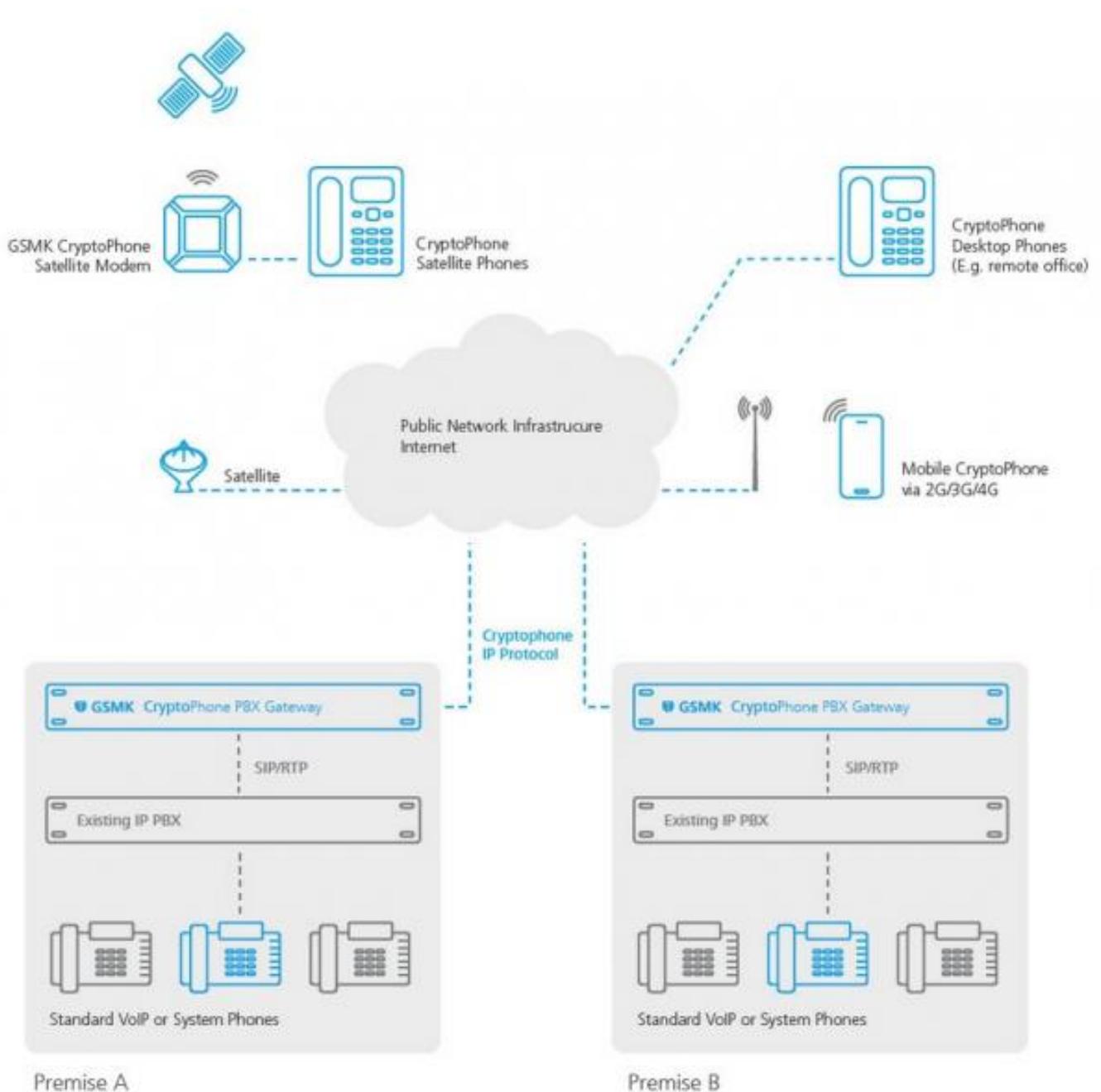
Lab versions are available for testing and maintenance purposes.

### 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

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### System Architecture GSMK 360° Encryption



## Technical Data

### GSMK CryptoPhone PBX Gateway

High-grade appliance, 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

### Encryption

AES256 and Twofish with 256 bit effective key length and 4096 bit Diffie-Hellman key exchange. The encryption key is destroyed as soon as the call ends, and no log files are kept on the switching equipment.

### Voice Codec

ACELP VLBR4 codec (towards Cryptophones)

### Protocols

- ✓ SIP and SIPS support (RFC 3261)
- ✓ RTP and SRTP support (RFC 3550 and RFC 3711)

## Compatibility Overview

### GSMK Cryptophones

- Cryptophone Mobile Generation 4xx, 5xx, 500i, 6xx
- Cryptophone Desktop Phones IP19, IP19i
- Cryptophone Satellite Phones

#### **PBX Appliances and protocols**

- Cisco Call Manager
- Asterisk 11.x based appliances
- others upon request

#### **GSMK - Cryptophone PBX Gateway**