

TECHNICAL SPECIFICATIONS

Secure Phone Calls for Thuraya IP and Inmarsat BGAN Satellite Links

Supporting a wide range of satellite terminals, GSMK CryptoPhone IP provides reliable end-to-end encrypted voice over IP communications across network borders. All GSMK CryptoPhone IP secure mobile and desktop phones can be connected to Thuraya IP or Inmarsat BGAN satellite terminals either via a simple Ethernet cable or an encrypted Wireless LAN connection, thus guaranteeing end-to-end encrypted communications on any network, any time.

Voice Encryption

Secure voice over IP communication on Thuraya IP and Inmarsat BGAN satellite networks • strongest and most secure algorithms available today – AES256 and Twofish • 4096 bit Diffie-Hellman key exchange with SHA256 hash function • readout-hash based key authentication • 256 bit effective key length • encryption key is destroyed as soon as the call ends

GSMK CryptoPhones are the only secure mobile phones on the market with full source code available for independent security assessments. They contain no »proprietary« or »secret« encryption, no backdoors, no key-escrow, no centralized or operator-owned key generation, and require no key registration.

Interoperability

Fully compatible with all GSMK CryptoPhone IP mobile, satellite and fixed-line encryption products • end-to-end encrypted calls from and to vehicles, naval vessels and remote camps as well as cellular phones and private branch exchanges • IP PBX integration with virtual satellite extensions



Trustworthy Voice & Message Encryption

All GSMK CryptoPhone products come 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 devices that you entrust your security to. The GSMK CryptoPhone system enables you to put the trust where it belongs – in a trustworthy, open and scientific verification process.

GSMK CryptoPhone IP secure phones utilizing satellite links are based on well-researched algorithms for both encryption and voice processing. They feature the strongest encryption available combined with key lengths that provide peace of mind today and in the future.

Compatibility

All GSMK CryptoPhone IP secure mobile telephones • IP satellite connection can be established via built-in encrypted Wireless LAN connection to Thuraya IP Hughes 9103 satellite terminal or Inmarsat BGAN terminals with Wireless LAN modules, including Hughes HNS 9201/9250/9350/9450 and Thrane & Thrane Explorer 700

All GSMK CryptoPhone IP secure desktop telephones • IP satellite connection can be established via simple Ethernet cable connection to Thuraya IP Hughes 9103 satellite terminal or all modern Inmarsat BGAN terminals, including Thrane & Thrane Explorer series, Harris RF-7800B, Hughes HNS 9201/9250/9350/9450 and Wideye Sabre

Optional Accessories

- 12 / 24V vehicle chargers, vehicle mount kits and external antennas
- Solar panel chargers
- Heavy-duty battery packs for extended operations without access to electrical power sources

Cross-border Operation



Your Local Distributor:

GSMK would like to thank its long-time partners Thuraya Satellite Communications Co. and Ahlan Coms for facilitating extensive CryptoPhone IP desert field tests on the Arabian Peninsula.