

TECHNICAL SPECIFICATIONS

Secure satellite telephone calls for the Thuraya satellite network • The GSMK CryptoPhone T3 satellite adapter is an add-on device for all GSMK CryptoPhone encryption units. The adapter allows any GSMK CryptoPhone encryption unit to be connected to either an SO-2510 or SG-2520 Thuraya satellite handset via a secure local cable or wireless connection. Using the secure local connection to the satellite handset, the CryptoPhone encryption unit can then be used to place encrypted satellite telephone calls, using the satellite handset to transport the CryptoPhone's encrypted signal.

Package contents • CryptoPhone T3 satellite adapter for Thuraya SO-2510 or SG-2520 Thuraya satellite telephones • Voucher for Thuraya-capable firmware upgrade for the GSMK CryptoPhone encryption unit • CryptoPhone interconnect firmware upgrade for the SG-2520 satellite phone (for pure wireless device-to-device connectivity, installation optional)

Interoperability • Fully compatible with all GSMK CryptoPhone mobile, satellite and fixed-line encryption products

Dimensions & weight • 115 x 67 x 25mm, 220g incl. battery, protective rubber boots for field use in adverse environments

Operational features • Operates on a standard 9V block battery or line power for maximum operational flexibility • Secure satellite talk time when battery powered up to 2 hours, standby time up to 40 hours • See reverse for example applications

Optional Accessories • 12V car charger • solar panel charger • waterproof and shock-resistant carrying case



Trustworthy Voice & Message Encryption

All GSMK CryptoPhone encryption 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 device 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 technology is based on well-researched algorithms for both encryption and voice processing. It features the strongest encryption available combined with key lengths that provide peace of mind today and in the future.

Modes of operation

(1) T3 cable connection for Thuraya SO-2510 or SG-2520 satellite phones • Encrypted cable connection using the data cable supplied with the satellite phone and the USB cable supplied with the GSMK CryptoPhone encryption unit • No near-field radio transmissions • USB connection managed by the T3's built-in USB bus master

(2) T3 wireless connection for Thuraya SO-2510 satellite phone only • Encrypted Bluetooth connection allows secure calls to be made with the GSMK CryptoPhone encryption unit having full freedom of movement within a range of several meters around the T3 adapter, just like with a cordless phone • Wireless connection between the CryptoPhone and the T2 poses no security risk, as it is only used to transport already encrypted data • Encrypted Bluetooth capability for the SO-2510 provided by the T3's built-in Bluetooth transceiver

(3) Device-to-device wireless connection for Thuraya SG-2520 satellite phone only • Encrypted Bluetooth connection allows secure calls to be made while SG-2520 and GSMK CryptoPhone encryption unit are in Bluetooth range • Encrypted Bluetooth capability for the SG-2520 enabled by T3 firmware upgrade for the SG-2520, use of the physical T3 adapter not required for this use case

Encrypted voice communication across network borders • All GSMK CryptoPhone products use the same crypto engine and are fully compatible with each other. It is thus possible to place encrypted telephone calls not only from Thuraya satellite phones to other Thuraya satellite phones, but also to fixed-line and GSM mobile users using GSMK CryptoPhone products for cellular, analog or ISDN networks.



FIGURE (1):
T3 CABLE CONNECTION USING SO-2510, T3, AND CP300



FIGURE (2):
T3 WIRELESS CONNECTION USING SO-2510, T3, AND CP300



FIGURE (3):
WIRELESS CONNECTION USING ONLY SG-2520 AND CP300