



TalkSECURE™ Digital

End-to-end voice and data security for digital communications



(satellite phone not included)



Overview

When high assurance secure communications are required in remote areas where terrestrial communications are not available, TalkSECURE™ Digital provides end-to-end voice and data security for satellite communications.

TalkSECURE Digital complements the Sectera portfolio of secure interoperable wireless and wireline products, providing voice and data encryption for government, business and international users over a multitude of digital circuits.

The initial release provides secure communications for Iridium Satellite Solutions®, which provide the only two-way coverage that includes the world's oceans and Polar Regions. TalkSECURE Digital connects to a Motorola 9505 Iridium portable satellite phone providing global mobility and FNBDT (Future Narrow Band Digital Terminal) security over the Iridium constellation.

The software programmable interface allows for future secure digital applications, such as

- Inmarsat, SHF/EHF or other satellite communication systems
- Digital Trunks

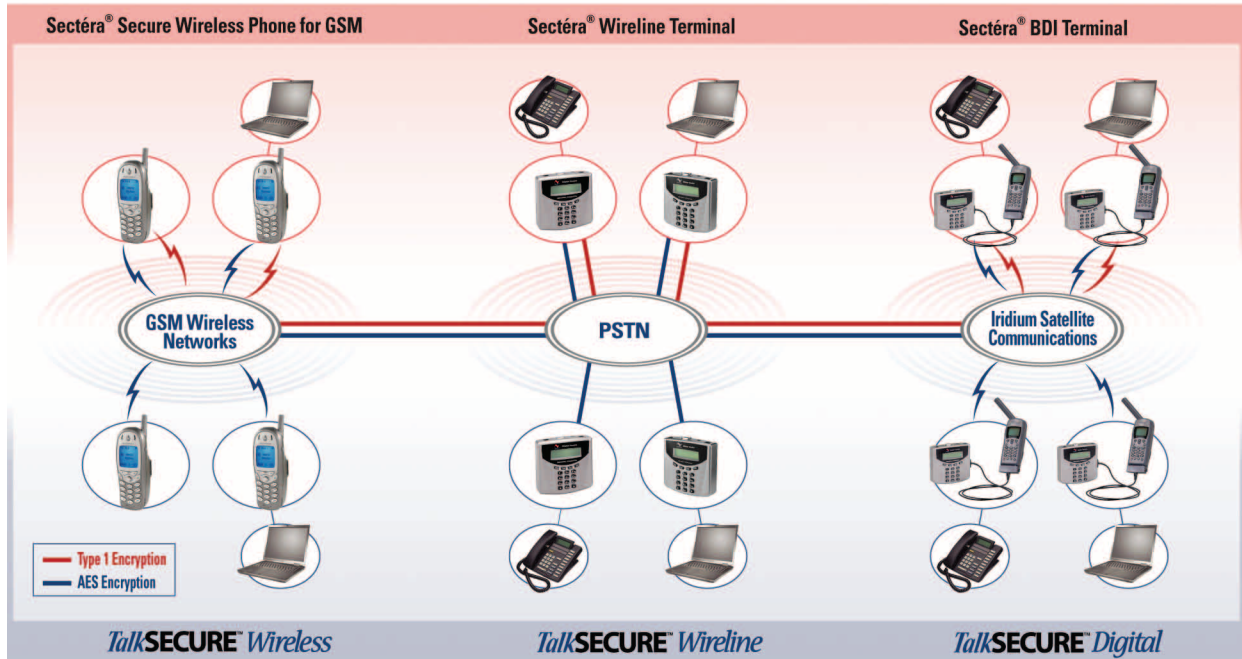
Benefits

- Can be used as either an analog or digital encryptor for both voice and data
- TalkSECURE Digital implements the Advanced Encryption Standard (AES), approved as a replacement for the 1977 Data Encryption Standard (DES) by the National Institute of Standards and Technology (NIST) in 2002, to protect sensitive and confidential communications
- Incorporates the Sectera Architecture with FNBDT signaling for secure wireless and wireline interoperability
- High quality voice for secure and clear calls
- Secure interoperability with TalkSECURE™ Wireless and Wireline products for SBU (sensitive but unclassified) and Homeland Security applications
- Secure interoperability with Sectera Type 1 Wireless and Wireline products

Features

- Software programmable and software upgradeable to incorporate the latest enhancements
- Small, portable, compact and lightweight
- Security/Authentication display and voice prompts assist with security set up

Sectéra® Portfolio of Secure Interoperable Communication Products



TalkSECURE Digital Specifications

Size:

Width	5.0 in.
Height	1.3 in.
Depth	4.6 in.
Weight	10 oz.
Volume	30 cu in.

Interfaces:

RS232	9 Pin RS232
RS530	25 Pin Custom

Power:

AC Power	110 to 220 VAC
DC Power	< 5 Watts (supplied by battery pack)

Modem:

	V.34/V.90
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Analog Data Rates:

Asynchronous	Up to 56,000 BPS*
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Digital Data Rates:

	Up to 2400 BPS for Iridium Satellite application (higher for future applications)
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Speech Processing:

Toll Quality (6.4 KBPS)	G.729D
2400 BPS	MELP

Temperature:

Operational	0° C to + 50° C
Storage	- 30° C to + 80° C

Approvals:

Connection Telecom	FCC Part 68 (US), CTR21 (EU) IS CS-03, Issue 8 (Can) AS/ACIF S002: 2001 (AUS) PCT200: ISS 2 (NZ)
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Safety

	UL 1950, ENC60950, IEC950
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EMI/EMC

	FCC Part 15 subpart J, Class B
	EN55022/EN55024
	EN50082-1



TalkSECURE Digital

*When other end is attached to a secure digital link

ETL is an independent testing house for UL certification.

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GENERAL DYNAMICS

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