



TalkSECURE™ Wireline

Information Assurance for Voice and Data Communications.



Overview

The TalkSECURE™ Wireline terminal is a software architected solution capable of encrypting both voice and data. The TalkSECURE Wireline terminal provides High Assurance Security to commercial and international customers.

The compact, lightweight device interfaces simply with standard analog desktop phones or attaches to a personal computer. The small footprint allows it to be used in a stationary environment with minimal space, or as a portable device easily transported to remote or temporary locations.

Moderately priced, the TalkSECURE Wireline terminal enables more users to implement the security they should be using, but could not previously afford. Its simple operation makes secure calling virtually transparent, and improved technology offers voice quality equal to that of a call in the clear.

Features

- Incorporates the Sectera Architecture with Future Narrow Band Digital Terminal (FNBDT) Signaling for Secure Wireless and Wireline Interoperability
- Provides Secure Voice, Secure Data and Clear Data Modes
- A Standard 56 KB Modem Provides Enhanced Data Rates
- Includes Standard AT Command Set (Secure Data)
- Small Size and Light Weight Provides Portability
- Software Upgradability Allows User to Incorporate Latest Enhancements
- Access can be direct or via Pin, with Support for Multiple Users
- Provides a Transition from Sectel® 9600 to FNBDT Standards

GENERAL DYNAMICS
Decision Systems

Technical Specifications

Interoperable Security Architecture

Key to the success of the Wireline Terminal is the Sectera Interoperable Security Architecture upon which it is built. The Sectera architecture provides the following key benefits:

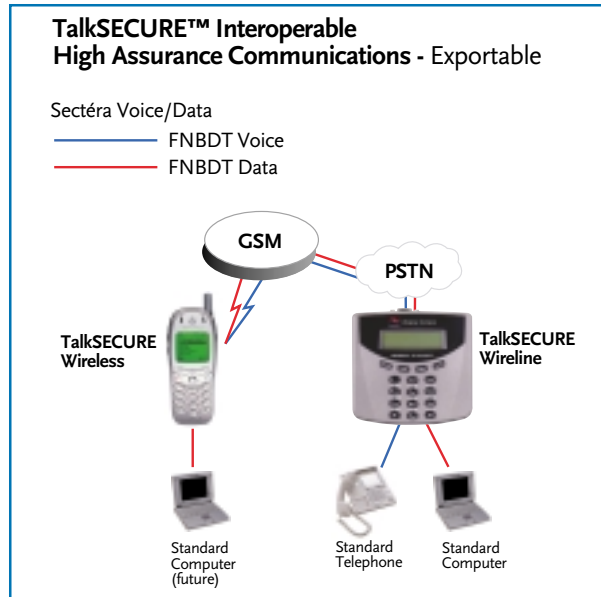
- Device Independence Enables Interoperable Security Between Virtually any Wireless and Wireline Device Incorporating FNBDT Signaling
- Fully Software Programmable Key Generation with Software Update Capability

Encryption

General Dynamics uses the 128-bit Rijndael Advanced Encryption Standard algorithm to provide end-to-end encryption for user voice and data traffic. A description of this algorithm can be found at <http://csrc.nist.gov/encryption/aes>.

Unique traffic keys are established for each call and these keys are created and exchanged using General Dynamics' Automatic Public Key (APK) system. APK uses standard P-224 Elliptic Curve Cryptography which is defined in FIPS 186-2 <http://csrc.ncsl.nist.gov/cryptval/> and provides a cryptographic strength exceeding that of 2048-bit RSA.

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TalkSECURE Wireline 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
PSTN	RJ11
Phone	RJ11

Power:

	110 to 220 VAC
	9-30 VDC (Optional DC/DC Adapter)
	< 5 Watts

Modem:

	V.32/V.34
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Data Rates:

	Asynchronous Up to 56,000 BPS*
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Speech Processing:

	Toll Quality (6.4 Kbps) G.729D
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*When other end is attached to a secure digital link

Temperature:

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

Secure Dial:

Transmit/Receive	Yes (Future Upgrade)
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Approvals:

Connection (Telecom)	FCC Part 68 (US), CTR21 (EU)
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Safety	UL 1950, ENC60950, IEC950
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EMI/EMC	FCC Part 15 subpart J, Class B EN55022 EN50082-1
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ETL is an independent testing house for UL certification.

GENERAL DYNAMICS

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