

CipherTalk-8000

Advanced Encryption

Secure Voice Wireless GSM

AES256 4096 D-H PKE

Pocket PC Phone

Hardened Operating System



CipherTalk-8000 (PC) Secure GSM SmartPhone & Pocket PC

Worldwide End-to-End (E2E) Voice Encryption

Digital Encryption

The CipherTalk-8000 PC provides Strong, End-to-End (E2E) encrypted voice communications with the Advanced Encryption Standard algorithm at 256-bits (AES256).

In addition, the CipherTalk-8000 PC encryption key algorithm and authentication is achieved through long 4,096-bit Diffie-Hellman Public Key Exchange (D-H PKE) and SHA256 hash function readout-hash authentication. Encryption keys are destroyed as soon as the secure call ends

Worldwide Coverage

The CipherTalk-8000 PC comes in two Tri-Band (GSM 850/1800/1900 MHz and GSM 900/1800/1900 MHz) radio interfaces to operate on the North American, Latin American 850 MHz GSM band; the European, Asian, Latin American 900 MHz GSM band; the European, Latin American 1800 MHz GSM band; and the North American, Latin American 1900 MHz GSM band.

Device Security

The CipherTalk-8000 PC is equipped with a **Security Profile Manager** that modifies the Microsoft's Windows Mobile operating system, "**Hardening**" it against malicious software. The Security Profile Manager provides 3 security levels: MEDIUM, HIGH, and EXTREME to modify the operating system, restricting and disabling applications vulnerable to viruses and intrusion. The EXTREME security level disables all means of communication except the normal unsecured SmartPhone and the CipherTalk-8000 PC Secure Global Phone while also disabling all permanent memory storage.

Technology

The CipherTalk-8000 PC is integrated on the most advanced Pocket PC and SmartPhone convergent device on the market and TCC's Hardened, Microsoft's Windows Mobile operating system. A True Pocket PC and Superb SmartPhone equipped with Internet Explorer, GSM Phone, SMS and MMS messages, Landscape View, Outlook Express, Voice Memo, Contacts, Calendar, Word, Excel, Calculator, Photo Album, Photo Contacts, Photo Caller ID, Media Player, Handwriting Recognition, GPRS, Bluetooth, USB Sync Cradle, Large 64K 240x320 pixels transreflective TFT Color Display, Speaker Phone & Mute Microphone, VGA Camera & Camcorder, Built-in Vibration and more.



Communicate In Confidence

Technical Specifications:

Operation

Modes	Plain Voice Secure Voice
Frequency	850/1800/1900 900/1800/1900
Circuit Switch Data	V.110 or V.32 FAX/MODEM (required)
Standby	190 Hours
Talk Time	2 - 5 Hours

Encryption

- ◆ **FIPS 140 - 2** Advanced Encryption Standard (AES265)
- ◆ Twofish256

Key Management

- ◆ **FIPS 140 - 2** Long (4,096-bit) Diffie-Hellman Public Key Exchange (D-H PKE) Per Secure Call
- ◆ **FIPS 140 - 2** SHA256 hash

Anti-Spoof / Key Verification

- ◆ Via Display Codes

Standard Features

- ◆ Pocket Outlook: Contacts, Calendar, email, Tasks, and Voice Memo
- ◆ Internet Explorer
- ◆ Windows Media Player
- ◆ Calculator
- ◆ Call Duration Timer
- ◆ Date and Time Display
- ◆ Mute Microphone
- ◆ Speaker Phone
- ◆ Voice Memo

Built-ins

- ◆ **Hardened** Microsoft® Windows Mobile™ Pocket PC Operating System
- ◆ Two 65K Color Displays
- ◆ GPRS High Speed Data
- ◆ Bluetooth
- ◆ SD Card slot
- ◆ USB
- ◆ SIM card Plug-in (3v)
- ◆ Integrated Antenna
- ◆ Internal Camera
- ◆ Built-in Vibration

Interoperability

Fully compatible with other CipherTalk products.

Operator Provided Services

- ◆ Internet Browsing
- ◆ Call Waiting
- ◆ Call Forwarding
- ◆ Call Holding
- ◆ Caller ID
- ◆ Short Messages
 - ◆ Send
 - ◆ Receive
- ◆ E-mail
- ◆ Voice Mail

Physical

Dimension	108 x 58 x 18 mm
Weight	150 grams
Display	240x320 pixel LCD 64K colors transreflective

Environmental

Operating Temperature	0°C to +50°C
Relative Humidity	5% - 95%

Power

AC adaptor	100 ~ 240 VAC 50/60 Hz
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QUALITY

As an ISO 9001 certified company, TCC designs, manufactures and supports high-grade secure communications systems that protect highly sensitive information transmitted over a wide range of data, voice and fax networks. Over 2,000 government/military agencies, financial institutions, telecom carriers and other multinational corporations worldwide rely on TCC to protect their communications networks.

<p>TCC secures mission critical networks for governments, corporations and financial institutions around the world. With over 40 years of experience, TCC is the trusted supplier for organizations that place a high value on the confidentiality of their data and voice communications.</p>	<p>CipherONE is a trademark of TCC. Other brand and product names may be trademarks or registered trademarks of their respective owners.</p>	<p>Technical Communications Corporation (TCC) 100 Domino Drive Concord, MA 01742-2892 USA Tel: 1-978-287-5100 Fax: 1-978-371-1280 E-mail: info@tccsecure.com Web Site: www.tccsecure.com</p>
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