

# CipherTalk-8000

# Advanced Encryption

## Secure Voice Wireless GSM FlipPhone

AES256  
4096 D-H PKE

Hardened  
Operating System



## CipherTalk-8000 FP Secure Quad-Band GSM FlipPhone

### Worldwide End-to-End (E2E) Voice Encryption

#### Digital Encryption

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

In addition, the CipherTalk-8000 FP 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 FP has a Quad-Band (GSM 850/900/1800/1900 MHz) radio interface that operates 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 FP 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 FP Secure Global Phone while also disabling all permanent memory storage.

#### Technology

The CipherTalk-8000 FP is integrated on the latest technology (2007) in mobile devices, the HTC STAR100 Smart Flip Phone. It comes equipped with Microsoft® Windows Mobile™ 5.0, 2 LCD displays, Internet Explorer, SMS (640 characters) and MMS messages, Voice Dial & Command, Pocket Outlook (Contacts, Calendar, email, Tasks, and Voice Memo), Calculator, Media Player, GSM, GPRS, EDGE, Bluetooth, USB, Main Display 2.2-inch 240x320, 65k colors sunlight readable transreflective TFT LCD screen with white LED backlight, Speaker Phone & Mute Microphone, VGA Camera & Camcorder, Built-in Vibration and more.



## Communicate In Confidence

Technical Specifications:

**Operation**

Modes	Plain Voice Secure Voice
Frequency	Quad-Band GSM 850/900/1800/1900
Circuit Switch Data	V.110 or V.32 FAX/MODEM (required)
Standby	150 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™ 5.0 Operating System
- ◆ Two 65K Color Displays
- ◆ GPRS/EDGE High Speed Data
- ◆ Bluetooth
- ◆ Micro 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	98.5 x 51.4 x 15.8 mm
Weight	99 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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