

# TalkSECURE™ Wireless

End-to-end voice and data security for commercial GSM® wireless networks



The TalkSECURE™ Wireless phone provides end-to-end high assurance secure voice and data communications for commercial GSM wireless networks operating in the 900/1800/1900 MHz bandwidths worldwide. The TalkSECURE Wireless phone can also be used as a regular wireless phone both domestically and abroad, and provides secure voice and data communications with the TalkSECURE Wireline terminal connected to an analog desktop phone. GSM (*Global System for Mobile Communications*) is a leading worldwide wireless telecommunications technology. Export controls for the secure phone fall under the jurisdiction of the U.S. Department of Commerce.



## Examples of confidential and sensitive information that should be protected:

- Public safety
- Intellectual property
- Trade secrets
- Financials

## The TalkSecure Wireless Phone consists of:

- A state-of-the-art commercial Motorola Timeport™ GSM tri-band phone
- The General Dynamics clip-in Secure Module that provides high assurance end-to-end security

## The phone offers all the features and convenience that users have come to expect in a commercial GSM wireless phone, including:

- Small size
- Long battery life
- Web browsing
- Hands-free accessories
- Caller ID and missed call indicator
- High quality voice  
(both regular and secure calls)
- GPRS data services  
(General Packet Radio Service)



The Advanced Encryption Standard (AES) Rijndael algorithm, approved as a replacement for the 1977 Data Encryption Standard (DES) by the National Institute of Standards and Technology (NIST) in 2002, provides state-of-the-art encryption for voice and data. General Dynamics' proprietary Automatic Public Key (APK) system generates and exchanges unique 128-bit session keys for every call.

## The Motorola Timeport Phone

- Tri-band technology for GSM 900/1800/1900 MHz networks
- Roaming
- One-touch/speed/voice-activated dialing
- WAP 1.1 enabled microbrowser
- GPRS (General Packet Radio Services)
- VoiceNote™ voice recorder
- 500 phonebook and 500 calendar entries with alarm
- Calculator and currency converter
- VibraCall® alert for discrete incoming call notification
- iTAP™ predictive text entry
- 32 preset and 32 customizable alert tones
- Multiple connectivity solutions (IrDA®, RS-232, USB)
- Circuit data/fax (14.4 Kbps)
- Two-way SMS (Short Message Service) messaging
- Integrated headset jack
- Accessories available for hands-free kits, carrying cases, belt clip, desktop, and travel chargers



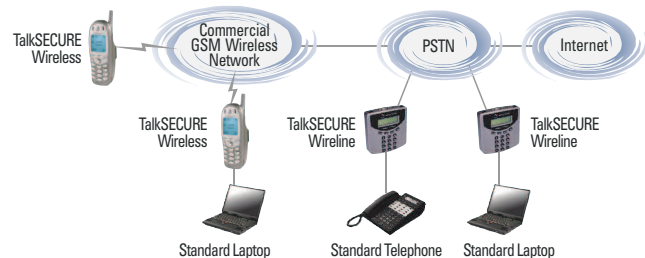
## Physical Characteristics

Batteries (Li-Ion)..... 800 mAh  
 Talk Time.....Up to 259 minutes  
 Secure Talk Time..... >2 hours  
 Weight..... 119 g.  
 Volume..... 105 cc.

Users contact their GSM wireless network provider to subscribe to GSM service to activate their phone by ordering:

- A primary voice phone number to place and receive regular wireless phone calls
- A second phone number for secure encrypted phone calls using 9600 BPS asynchronous transparent circuit switched data service, with mobile originate (MO) and mobile terminate (MT).

## TalkSECURE Wireless/Wireline Communications



## The General Dynamics clip-in Secure Module

- End-to-end security using the AES encryption standard (<http://csrc.nist.gov/encryption/aes>)
- Interoperability with
  - TalkSECURE Wireless phones
  - TalkSECURE Wireline terminals connected to an analog desktop phone
  - Sectera Secure Wireline and Wireless products designed to protect U.S. Government classified communications
- Data port provides
  - Secure software upgrades
  - Secure data applications
- International Telecommunications Union (ITU) standard toll-quality speech compression algorithm (G.729 Annex D, 6.4 Kbps)

**For more information call: 1-800-972-0068 or visit: [www.gdds.com/sectera](http://www.gdds.com/sectera)**

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