

# MOTOROLA STU III FACT SHEET

By RTC/nesnet



**SECTEL 1500** - The 1500 STU (Type 1 STU) is designated for use by some federal government agencies (but not all), the U.S. military and Canadian Defense Agencies. Also, a few defense contractors in the U.S. are permitted to purchase 1500 phones. Serves as two-wire and four-wire switched telephone. Handles TOP SECRET for FAX, modem or voice communications. Can't be transported outside of the U.S except by authorized government agencies. Motorola SECTEL 1500 Manual 68-P35279D002 (\$1,800.00)

**SECTEL 2500** - The 2500 STU (Type 2 STU) is for use by most federal government agencies, the U.S. military, Canadian defense agencies and law enforcement organizations such as the FBI, DEA, ATF, including local/state LEO. Also, defense contractors in the U.S. are allowed to purchase SecTel 2500 sets. Handles SENSITIVE / UNCLASSIFIED information for FAX, modem or voice communications. Can't be transported outside of the U.S except by authorized government agencies. (\$2,145.00)



**SECTEL 3500** - The 3500 STU (Type 3 STU) is for use by U.S. citizens, corporations, and law enforcement organizations. Handles NON SENSITIVE / UNCLASSIFIED information for FAX, modem or voice communications. Can't be transported outside of the U.S. (\$3,395.00)

**SECTEL 9600** - The 9600 STU (Type 4 STU) is for use by the rest of the world (except for designated countries on the State Department's hostile list). Handles NON SENSITIVE / NON CLASSIFIED information and is less secure than the SECTEL 3500. Modem FAX or voice encryption. Can be sold and transported internationally. (\$4,495.00)

From manufacturer's datasheet:

The **Motorola SECTEL 9600** is a full-function desktop unit that provides worldwide voice/data encrypted security through the telephone network. The 9600 offers voice quality that is exceptional and security that is transparent to the user. Key features include simultaneous voice and data transmissions in the secure mode, hands free speakerphone and two key management modes.

#### **Modem:**

- V.26 Ter Based: 2.4 kbps with echo cancelling
- V.32: 9.6 kbps and 4.8 kbps with echo cancelling

#### **Speech Processing:**

- 2.4 kbps Linear Predictive Coding (LPC 10 enhanced) Full and Half duplex
- 4.8 kbps Code-Excited Linear Predictive Coding (CELP) Full duplex
- 9.6 kbps Modified Residual Excited Linear Predictive Coding (MRELP) Full duplex

#### **Data Mode:**

- RS232 Compatible
- 9600/4800/2400 Baud Synchronous
- 9600/4800/2400/1200/600/300/110/75 Baud Asynchronous

#### **Two Key Management Modes**

- **Custom Mode** Allows the SECTEL 9600 user to retain control over the system through manually generated key variables
- **Automatic Public Key** Implements a "keyless" (APK) Mode RSA-based technology to enable transparent interoperability with other secure products
  - Erase capability permits the user to protect keying information
  - Retains its cryptographic memory when power is lost
  - AT Command Set allow remote control from a PC



**MMT Sectel 1500** - Same as Sectel 1500 type 1, but the MMT model has a few extra features such as an access jack for encrypting video. Federal Government use only. (\$2,295.00)

**MMT Sectel 3500** - Same as Sectel 3500 Type 3, but the MMT model has a few extra features such as an access jack for encryption video. U.S. citizen use approved. (\$1,995.00)

**Mini-MMT** - This model is the size of a small modem, and is perfect for "on-the-road" secured comms with a notebook connecting via telephone to a secured host. (\$1,900.00)

#### MOTOROLA SECURE TELEPHONE

SECTEL 1500:	\$1,800.00
SECTEL 2500:	\$2,145.00
SECTEL 3500:	\$3,395.00
SECTEL 9600:	\$4,495.00

#### MOTOROLA SECURE TELEPHONE (MMT)

SECTEL 1500 MMT:	\$2,295.00
SECTEL 3500 MMT:	\$1,995.00
SECTEL MINI-MMT:	\$1,900.00

#### MOTOROLA SECURE TELEPHONE (CELL)

SECTEL 1500 CELL:	\$5,745.00
SECTEL 2500 CELL:	\$5,745.00
SECTEL 3500 CELL:	\$5,595.00
SECTEL 9600 CELL:	\$7,495.00



President Bush speaking securely with the White House from a Florida classroom after September 11 attacks on the WTC.

## The Motorola SECTEL® Secure Telephone Terminal

*One telephone for secure and conventional conversation.*



For high resolution pictures (3072 x 2304):

<http://www.flickr.com/photos/14501843@N03/sets/72157602250764233/>

Note: Most STU-III units were built for use with what NSA designates as Type 1 encryption. This allows them to protect conversations at all security classification levels up to Top Secret/SCI, with the maximum level permitted on a call being the lower clearance level of the two persons talking.

At the height of the Commercial COMSEC Endorsement Program, Type 2 encryption, Type 3 encryption and Type 4 encryption STU-IIIs were manufactured, but they saw little commercial success.