



STU-II

WHO

Is Interested In
What you say?
(Anyone Interested In Eroding Our
National Security Posture.)

WHAT

Is of Interest?
(Anything Related to National Security)



A Major National Security Problem

WHEN

Are Your Telephone
Calls Vulnerable to Intercept?
(Each time you use the Telephone.)

WHERE

Are Your Telephone Calls
Vulnerable To Intercept?
(Anywhere Along the
Communications Path.)

STU-II CHARACTERISTICS/FEATURES

OPERATING MODES

- Clear - Normal Telephone Calls
- Secure
 - Full Duplex
 - Half Duplex
 - Voice-Operated Switch (VOX)
 - Push-To-Talk (PTT)
- Dedicated ('Hotline') Mode Available

SPEECH INPUT-OUTPUT

- Six Deskset Capability
 - 1000 ft. Remote Capability (Commercially available 6 pair shielded cable required)
 - Full Intercom Functions
 - Remote Deskset Enable/Disable Function

TELEPHONE SERVICE REQUIRED

- Standard Voice Grade Lines
 - Two for Full Duplex
 - One for Half Duplex
- Touchtone or Rotary Dial Switch Compatible
- Certified to meet the technical interface requirements for a National Security Exemption to FCC, Part 68.
- Automatic or Manual PBX Interface

VOICE DIGITIZERS

- Linear Predictive Coder (LPC-10)

- 2400 bps Data Rate
- Adaptive Predictive Coder (APC-4SQ)
 - 9600 bps Data Rate
- User Selectable
 - Automatic Fallback to 2400 bps Rate if Circuit Cannot Support 9600 bps

CRYPTOGRAPHIC SUBSYSTEM

- High Grade Cryptologic Algorithm (SAVILLE)
- TEMPEST Tested and Approved to NACSEM 5100 Specifications
- Key Provided Automatically and Electronically on a Per-call Basis By Key Distribution Center (KDC, TSEC/CI-9)
 - Storage for 20 KDC-provided Variables
 - Storage for a Single Commonly Held Net Variable Provided (updated at the terminal by user)
- Crypto-Ignition Key for Added Physical Security
- Alarms: Cryptographic Subsystem, Operational, Unauthorized Access

MODEM

- Initially Synchronized in Approximately Six Seconds
- Continuously Adapts to Transmission Line Characteristics

- Employs 2400 bps Rate Internal Modem (Fed. Std. 1005)
- Employs 9600 bps Rate Internal Modem (Fed. Std. 1007 draft)
- External Modem Port Provided
 - EIA Standard RS-232C Interface
 - 2400 bps Rate

PHYSICAL

- Size: 8.7 in. X 19.3 in. X 26 in.
22 cm X 49 cm X 66 cm
- Weight: 60 lbs.
27.3 kg
- Power: 110V or 220V, 50-60 Hz
200 Watts (Max)
- Operating Temperature Limits: 0° - 50°C
32° F - 122° F
- MTBF: 2500 hrs.
 - Office Environment

MODE COMPATABILITY

- Units Automatically Achieve Common Operating Modes
 - 2400 bps - 9600 bps
 - KDC - Net
 - Full Duplex - Half Duplex
 - Half-Duplex VOX - Half-Duplex PTT

DATA

- Accepts 2400 bps Digital Data
- EIA Standard RS-232C Interface

STU-II SYSTEM SUPPORT FUNCTIONS

DOCUMENTATION

- Simple operating instructions available
- A complete series of maintenance manuals for those maintaining their STU-IIs.

TRAINING

- STU-II maintenance courses offered by the Government on a regular basis.

PROVISIONING

- STU-II parts may be procured through normal Government requisition supply channels (i.e., through Federal Stock System and NSA).

For Additional Information Write:
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