



CSD 3324 SPV Secure Telephone



Providing strategically strong secure voice communications for mission-critical government, corporate and private applications

A secure telephone system, the CSD 3324 SPV secures voice conversations over the public switched telephone network. Using the AES 256-bit encryption algorithm and Diffie-Hellman public key exchange-based key management, the CSD 3324 SPV provides proven cryptographic strength, and ease of deployment and operation.

Integrated Voice Security

The CSD 3324 SPV secures voice communications over the public switched telephone network. Its 9,600bps MPLP vocoder provides excellent recovered voice quality with automatic fallback to 4,800bps CELP as needed. As a result, secure communications are supported over degraded line conditions.

Secure voice communication mode may be password restricted. Without the password, the CSD 3324 SPV functionality is restricted to its non-secure mode. User-friendly menus, which may also be password protected, provide logical setup of the CSD 3324 SPV's voice processing options.



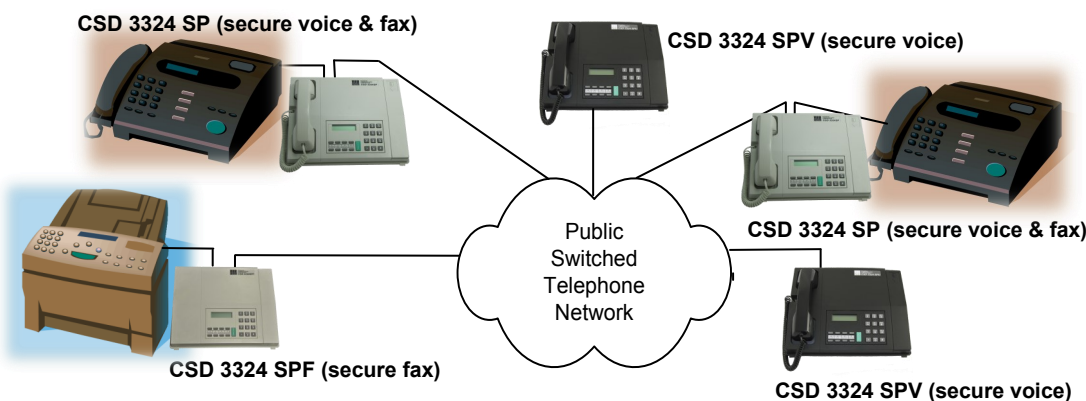
Cryptographic Strength

The CSD 3324 SPV protects voice calls using Advanced Encryption Standard (AES) encryption engines seeded using Diffie-Hellman public key auto-negotiated 256-bit session keys, and path-independent initialization vectors.

Benefits

- Strategic-level security for voice communications
- Excellent recovered voice quality
- AES-256 with Diffie-Hellman public key exchange for simplicity, cryptographic strength and ease of use
- Interoperable with TCC's CSD 3324 SP integrated secure voice and fax system
- User-friendly menu-based setup
- 50 stored names and phone numbers; last number redial feature

Interoperable Secure Voice & Fax Network Family



TCC's CSD 3324 SPV secures voice communications over the PSTN with another CSD 3324 SPV or TCC's CSD 3324 SP integrated telephone/fax encryptor. The CSD 3324 SP also attaches to Group 3 fax machines and is interoperable with TCC's CSD 3324 SPF fax encryptor.

Technical Specifications

General Features

Ease of installation and setup:

1. Connect power
2. Connect phone line
3. User-friendly menus allow changing factory-configured settings if required

Stored phone numbers:

- 50 names and phone numbers
- Redial feature of last number dialed

Display: two-lines x 16 characters, liquid crystal display

Keypad: 20 push-button

- 12 button standard telephone
- 8 function key buttons

Dimensions & Weight

Width: 31.3cm (12.3 inches)

Depth: 27.2cm (10.7 inches)

Height: 10.3cm (4.1 inches)

Weight: 2.32kg (5.1 pounds) unpacked

Power

Primary AC power:

- 100-240VAC 50/60Hz
- 9.5 watts (nominal)

Auxiliary DC power:

- Primary, or as back-up to AC
- 10-30VDC / 7 watts (nominal)

Environmental

Operational Temperature 0°C to +50°C

Relative Humidity: 5% to 95% non-condensing

Cryptography

Diffie-Hellman Public Key Exchange (D-H/PKE)

- 1,024-bit PKE modulus
 - 256-bit Session Key
 - Two each 128-bit Initialization Vector (IVs)
 - Six each man-in-the-middle detection ASCII text characters

AES-256 based Crypto Engines

- Two each (full duplex)
- 256-bit key
- 128-bit path-autonomous IV

Security Features

Secure mode access controls via secure-mode password

Protected menus access password

Line Side “Black” Interface

Telephone line interface — 2-wire, RJ-11 phone line

Customer “Red” Voice (Handset) Interface

4-wire handset analog signal port (modular RJ-8)

Voice coding/decoding (CODECs):

- 9.6Kbps MPLP
- 4.8Kbps CELP (fallback)

Options

Available in black or platinum color



For more than 50 years, Technical Communications Corporation has specialized in superior-grade secure communications systems and customized solutions, supporting our CipherONE® best-in-class criteria, to protect highly sensitive voice, data and video transmitted over a wide range of networks. Government entities, military agencies and corporate enterprises in 115 countries have selected TCC's proven security to protect their communications.

