

CSD 3324SPF Fax Encryptor

Advanced Encryption
Standard (AES-256)
protection for
sensitive Government,
corporate, & private
Fax communications

CSD 3324SPF for Securing Group III Facsimile Exchanges

Product Overview:

The *CSD 3324SPF* is TCC's latest product derivative of the *CSD 3324SP* secure office telephone. The *CSD 3324SPF* brings the proven strength of the 256-bit Advance Encryption Standard (AES-256), while satisfying a growing demand for a rapid, uncomplicated deployment by using Diffie-Hellman Public Key Exchange (D-H PKE) key management. The 'SPF' unit's Group III secure fax features are identical to the *CSD 3324SP*, therefore secure facsimile exchanges are 100% interoperable with the *CSD 3324SP* in a mixed network of 'SP' and 'SPF' devices.

Product Specifications:

{Listed on the reverse side.}

Secure Fax Operations:

Cryptographically secured Fax transfers are automatically negotiated, simply by initiating a Fax exchange from any common Fax machine connected to the *CSD 3324SPF*'s modular RJ-11 2-wire serial Fax interface. When the far end Fax is also connected to a *CSD 3324SPF*, the fax is automatically sent encrypted. The *CSD 3324SPF* receiving the Fax call automatically switches in the decryption functionality when it senses that the fax call was placed by another *CSD 3324SPF*. The 'SPF' can be menu-configured to accept only secured Fax messages, or be allowed to accept either plain or secure Fax messages. Connection speeds are negotiated by the V.29 or the V.27/ter modem, based on line conditions.



ENCRYPTION

- ☎ Advance Encryption Standard (AES) - NIST*
- ☎ Auto-Negotiated Session Key with every half duplex Fax call (256-bit Key length)
- ☎ New 128-bit IV with every half duplex Fax call

KEY MANAGEMENT

- ☎ 1,024-bit Modulus Diffie-Hellman Public Key
- ☎ Supports "Open Architecture" Networks
- ☎ Anti-Spoof Protection

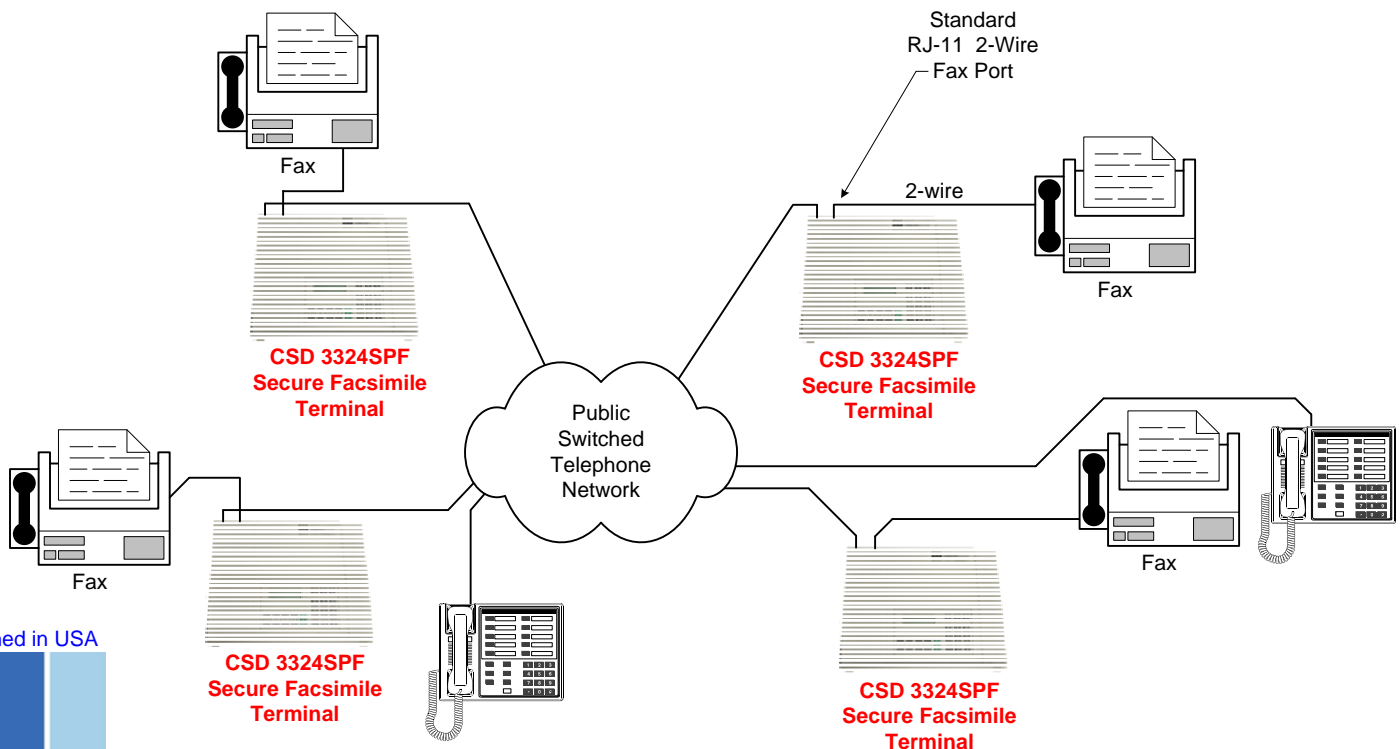
SECURE GROUP III FAX

- ☎ Standard 2-Wire Fax Connection (RJ-11)
- ☎ Auto-Sensing Group III Fax (V.29 | V.27/ter)
- ☎ Auto-Sensing Incoming **Plain** or **Secure Fax**
- ☎ Automatic Retraining to Lower Rates (when line conditions dictate ...)

SECURE PHYSICAL DESIGN

- ☎ Tamper-Resistant Design

* National Institute of Standards and Technology (NIST), Federal Information Processing Standard (FIPS-197).



Published in USA



DCN 08-1046
Revision A

© Technical Communications Corporation, 2009.
All specifications subject to change without notice.

CSD 3324SPF Secure Fax Encryptor

specifications

A complete Group III fax security solution for mission-critical facsimile-based communications

CRYPTOGRAPHIC

- ◆ Key Generator (Half Duplex)
 - ◆ Encrypt AES-256 Engine
 - ◆ Initialization Vector (IV)
 - ◆ Session Key
 - ◆ Decrypt AES-256 Engine
 - ◆ Identical to 'Encrypt'
 - ◆ Same Session Key and IV
 - ◆ 128-bit Cipher Block Width
 - ◆ Output Feedback (OFB)
 - ◆ No error extension

KEY MANAGEMENT

- ◆ Diffie-Hellman Public Key Exchange (D-H PKE)
 - ◆ 1,024-bit Modulus
- ◆ Each Exchange Results In:
 - ◆ Unique 256-bit Key Variable
 - ◆ Unique 128-bit IV
 - ◆ Anti-Spoof Protection Data
- ◆ New exchange with each call
- ◆ Open Architecture Network
 - ◆ Supports Rapid Deployments

GENERAL FEATURES

- ◆ Auto-Answer (Fax Sense)
 - ◆ User-configurable # of Rings
 - ◆ Auto-Sense: Plain or Secure
- ◆ Display & Keypad
 - ◆ LCD Display
 - ◆ 2-Lines / 16 Characters
 - ◆ 20-Push Button Keypad
 - ◆ 12-buttons standard keypad
 - ◆ 8 Function Key buttons

- ◆ Menu Access Password
 - ◆ Prevents Unauthorized Access to Sensitive Menus

ENVIRONMENTAL

- ◆ Operating Temperature
 - ◆ 0°C to +50°C
- ◆ Relative Humidity
 - ◆ 5% to 95% Non-condensing

DIMENSIONS & WEIGHT

- ◆ Width: 31.3cm (12.3 inches)
- ◆ Depth: 27.2cm (10.7 inches)
- ◆ Height: 10.3cm (4.1 inches)
- ◆ Weight: 2.34kg (5.15 pounds)

BLACK INTERFACE

- ◆ TELCO Line
 - ◆ 2-Wire, RJ-11 Modular

RED INTERFACE

- ◆ Group III Fax Interface
 - ◆ 2-wire, RJ-11 Modular

PRIME POWER INPUT

- ◆ AC Power
 - ◆ 100 - 240VAC 50/60Hz
 - ◆ 9.5 Watts
 - ◆ Typically 'Primary' Source
- ◆ DC Power
 - ◆ 10-30VDC (8 Watts)
 - ◆ Primary or Back-Up Source
 - ◆ Can Provide Power Back-Up Should AC Power Fail

All Specifications Are
Subject To Change
Without Notice
Copyright: TCC 2009

Published in USA

DCN 08-1046



Commitment to 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.

