

# Secure-DS1

## ISDN PRI (T1/E1) Encryption Platform.



### Product Overview

ISDN PRI Encryption platform is a custom built appliance that allows ISDN Audio, Video or Data Calls to be encrypted with 3DES-192 or AES-256 algorithm.

It can be used with any legacy ISDN PRI CPE hardware and its operation is completely transparent to end users. Encryption can be performed at a maximum T1/E1 line rate with up to 23 (T1) or 30 (E1) concurrent calls. Typical installation require an encryption platform (see Application diagram) located at each office where secure calls can be originated or terminated and is usually placed between Telco and CPE (PBX, Video Conferencing Station, VoIP Gateway). No configuration changes are needed at CPE to enable encryption services and installation usually takes under 5 minutes. Encryption platform is equipped with internal bypass switch to support instant recovery from power loss or any other hardware failure. Encryption is being engaged based on Calling/Called phone number and allows both secure and not secure calls to be made in the same trunk. When user receives a call that is encrypted, audio announcement "This call is secure" can be delivered to both parties. Encryption algorithm is based on proven and industry tested IPSec/ISAKMP suite with 3DES-192 or AES-256 ciphers. Device can be managed in-band over the same E1/T1 line or out of band via USB or Fast Ethernet Interfaces. Centralized Management software (Secure Manager 7.0) is offered to simplify multi-unit deployments.

### Technical Specification

**Number of PRI trunks:** 1

**Supported Interfaces:** ISDN PRI (T1/E1) with RJ45 Jack

**Encryption Cipher:** 3DES-192, AES-256

**Key Exchange:** ISAKMP/Diffie-Hellman

**Types of calls supported:** Video, Audio, Data

**Management interface:** In-band (T1/E1), USB, Fast Ethernet

**Management software:** Windows 64 or 32 bit (Windows XP, Windows 7, Server 2003, 2008)

### Operating

**Operating Temperature:** -40°C to 85°C

**Storage Temperature:** -55°C to 85°C

**Relative Humidity:** 10% min, 95% max, non-condensing

### Power

110/220V to 24VDC Adapter. 2.5mm OD Power Connector

