

# FUTUREX Kryptos TLS Server

GENERAL-PURPOSE DATA ENCRYPTION

Robust, Cost-Effective Encryption Solutions for  
Your General-Purpose Data Security Needs



## Industry-Leading Versatility and Security

As the complexity of information systems increases and the need for worldwide data transmission grows exponentially year after year, the need for increasingly powerful data encryption solutions for your infrastructure becomes even more critical. That is why our Kryptos TLS Server has been designed to offer complete and robust general-purpose data encryption security at industry-leading speeds.

Our highly innovative device is designed to provide ideal and cost-effective security solutions for your current and future business needs. It is designed to be host and client-neutral, which enables it to be integrated into your existing environment without difficulty. For organizations wishing to implement a complete turnkey solution, Futurex offers a number of other complementary products.

The device is capable of an extremely wide range of functions, from encrypting web traffic to transmitting Point-of-Sale (POS) device traffic, to forming the cornerstone of your End-to-End Encryption (E2EE) system. Virtually any type of data traffic can be encrypted for transmission through the Kryptos TLS Server.

## Secure, Convenient & Easy to Use

The Kryptos TLS Server is configured with a highly secure Ethernet (TCP/IP) port for data transmission. Its ability to accept up to one thousand socket connections with automatic load balancing across the entire platform allows you to perform data encryption operations for a large number of separate applications concurrently.

Configuration of the device is easy to do and allows you to determine the method and strength of encryption, the ports and IP addresses where data will be forwarded, and a number of other important security settings. Our primary goal is to improve your security and reduce the risk you take when you send sensitive data outside of your own secured network.

### Robust, Cost-Effective Encryption Solutions for Your General-Purpose Data Security Needs

- Secure your sensitive data for transmission to remote locations
- Eliminate your dependency on software-based encryption platforms
- Highly secure TCP/IP port

## SPECIFICATIONS

# Kryptos TLS Server

### Operating System

Secured Linux

### Dimensions & Weight

Space: 1U, Weight: 23.1 lbs (10.5 kg)

### Secure Socket Connections

Up to one thousand

### Processing Throughput

Up to 100mbps

### Meets Industry Compliance Standards

PCI DSS  
FIPS 140-2 Level 3  
ANSI X9.24 part 1 and part 2—TR-39

### Operating Conditions

Power requirements: 100 – 230 VAC 50/60 Hz. 400 Watts  
Operating temperature: 50° to 95°F (10° to 35°C)  
Storage temperature: -40° to 149°F (-40° to 65°C)  
Operating relative humidity: 20% to 80% non-condensing  
Storage relative humidity: 5% to 95% non-condensing

### External Hardware Requirements

Dedicated PC/Laptop: for configuration and key loading  
or Futurex Securus: handheld touchscreen-based product for  
configuration and key loading

### Kryptos TLS Server Units Include

Application CD  
User guide  
Mounting brackets  
Two TRSM barrel keys  
Cables

Futurex's innovatively-designed Kryptos TLS Server has numerous exclusive features not available on other general-purpose data encryption platforms.

### Universal Compatibility

- Accepts virtually every type of data for encryption and transmission over TCP/IP (Ethernet)
- Compatible with all major host application software products sold around the world
- Highly versatile API allows for integration into diverse client and host environment

### Cost-Effective Solutions

- Best cost to performance ratio in the industry
- Lowers your cost per transaction rate

### Industry Compliant Standards

The Kryptos TLS Server meets and adheres to the following compliant standards:

- PCI DSS
- FIPS 140-2 Level 3
- ANSI X9.24 part 1 and part 2—TR-39

### Browser-Based Administration Tool

Eliminates the need for your security administrator to be physically located at the device to perform functions such as:

- Upgrade device firmware
- Alter TCP/IP (Ethernet) and COMM port settings
- Alter host software application parameters
- View trace logs of all command details

### Robust Logical Security

The Kryptos TLS Server is a FIPS 140-2 Level 3 validated hardware security device with the following physical security features:

- 1U hardened steel interlocking rack mounted case
- Two unique faceplate bezel locks to protect the configuration port
- Tamper Resistant Security Module (TRSM) with epoxy barrier and sensor wires to protect processor and system memory
- Battery backup for keys in TRSM memory

### High-Availability Features

The Kryptos TLS Server contains the following additional features:

- Dual power supplies
- Dual gigabit Ethernet (TCP/IP) ports

### Wide-Ranging Data Encryption Capabilities

The Kryptos TLS Server is designed to encrypt virtually all types of data, including:

- Web-based traffic
- Transaction data from Point-of-Sale (POS) terminals
- Encrypted e-mails
- Any application using socket connections

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