



## eKrypto™ Benefits:

- **Secure**
  - Signature Verification
  - PIN Entry
  - Communications
- **Web-Enabled Device**
- **Large LCD Info Display**
- **Banking & eCommerce Applications**
- **Windows USB Plug & Play Compliant (easy installation)**
- **Optional Smart Card & Contactless Card Readers for Chip & PIN Transactions**

The eKrypto™ Web-Enabled PINsign PIN Pad is a combined Electronic Signature Pad with integrated virtual PIN Pad optional Magnetic or Smart Card Reader plus optional Contactless Card Reader. This compact, highly durable and secure EMV2000 compliant device performs Offline / Online PIN / Signature verification, secure PIN entry, processing. The electronic signature solution has been developed with our partner Topaz Systems Inc. using their proven SigPlus software that is fully compliant with US State and Federal electronic signature law.

User identity is verified by Electronic Signature or Secret PIN rather than traditional paper based signature methods, thereby requiring the user to either be capable of providing their unique signature and / or in possession of a physical card and knowledge of the secret PIN number. The PIN is encrypted by the eKrypto™ engine ensuring data leaves the PIN Pad encrypted. Captured Electronic Signatures are outputted and processed securely by the Topaz SigPlus software.

A secure transaction is only initiated on receipt and verification of a signed, trusted smartlet by the eKrypto™ PIN Pad via the connected Host. The eKrypto™ Controller contains three encryption engines, 3DES, SHA-1 and PKI. The eKrypto™ PIN Pad supports more than 20 applications as it is not limited to available SAM slots. Application changes only require a smartlet revision plus the PIN Pad is remotely programmable and supports secure remote key loading for greater security plus maintenance convenience and savings.

## Technical Specification

### DIMENSIONS

183 x 168 x 16 mm sloping

### OPTIONAL MSR READER

1,000,000 passes 3 track

### DISPLAY

Graphic Signing Backlit LCD  
118 (W) x 86 (L) mm Active Area

### OPTIONAL SCR READER

8 contacts, 500,000 insertions  
Standard ISO 7816 Chip Card Interface  
3v3 and 5v Chip Card Support  
EMV2000 Approved

### OPTIONAL CONTACTLESS CHIP CARD READER

13.56 Mhz Contactless Reader Interface

### SENSOR TYPE

Active Electromagnetic

### PEN TYPE

Active Energized

### OPERATING TEMP

0°C to 50°C

### PC INTERFACE

USB Windows PnP compatible

### HOST CABLE & POWER

Single straight 2 meter long type for Bus powered USB port  
RS232 Serial Option Available

### OPERATING SYSTEM

eKrypto™ OS

### STANDARDS

ISO 7811 MSR  
ISO 7816 SCR  
EMV2000 Level 1 & 2  
ISO15693 CCR  
ISO14443A Mifare® CCR  
ISO14443A/B CCR  
EN60950/IEC950/  
UL 1950 Safety  
ISO 9995 Ergonomics  
ISO 9241 part 4 Ergonomics  
FCC part 15 EMI Emissions  
EN55022 B RF Emissions  
EN55024 RF Immunity  
CE / CB

Doc Rev 2.3

The eKrypto™ Web-Enabled PINsign PIN Pad is intended for use as:

- A Virtual PIN Pad for Secure Transactions. The PIN Pad can perform secure Offline and Online PIN Verification. Integrated Magnetic Card Readers plus optional Smart Card Reader and Contactless Card Reader for ease of migration.
- A Secure Signature Pad for Online / Offline Electronic Signature Verification and Secure Customer Focused Messaging.

The eKrypto™ Web-Enabled PINsign has an integrated large Graphic Signing Backlit LCD, Active Energised Electronic Signing Pen and Triple Track Bi-Directional Magnetic Swipe Reader (MSR). The LCD serves to provide extended user information or terms and prompt user to enter Signature, PIN or perform other actions. ISO 7816 & EMV2000 approved Smart Card Reader (SCR) and Contactless Card Reader available as optional extras. Topaz SigPlus Signature Software, J/XFS & XFS Middleware Drivers and EMV2000 Level 2 Kernel available on request.

## Technology Benefits

### Security

- Signature Verification
- PIN Verification
- 3 x Crypto Engines
- PKI Enabled (Up to 2048 bits)
- 3DES Enabled
- Secure Remote Key Loading
- Secure Durable Housing

### Features


- 16/20 Key Virtual PIN Pad
- USB Serial Host Interface
- Electronic Signature Verification Online / Offline
- Online PIN Verification with Magnetic or Smart Card
- Magnetic Swipe Reader Bi-Directional Triple Track
- 5.7 inch full colour TFT VGA (640 x 480) LCD Display with Backlight (118 x 86 mm Active Area)
- Single Colour Charcoal Black Housing
- Colour LCD can display customer focused advertisements / messages
- Colour LCD can present contract terms allowing customer to sign electronically with verifiable recorded signature.
- Active low-power, rugged EM pen, 1024 pressure level option
- SigPlus development tools for ActiveX, Native Java, .NET, Linux, C++, Linux/Unix. Plug-ins for MS Word and Excel, Adobe Acrobat

### Options

- Smart Card Reader (500,000 reader inserts)
- Chip & PIN Verification with inserted Smart Card
- Smart Card Reader Application Modules for PC/SC EMV & ISO
- Coloured Housing
- Client Logo Printing



**eKrypto™ PINsign Features**



Electronic Signing Pen

Virtual PIN Pad

Rugged Housing

Large Colour LCD Signing Pad

3 Track Magnetic or Smart Card Reader

**Future Proof**

The eKrypto™ PINsign PIN Pad meets the very latest hardware security standards and has fully remote programmable firmware. The PIN Pad supports remote key loading, more than 20 different applications and each is updatable for every device in the field by loading a revised smartlet on the central host server.

**Electronic Trade Solutions the Designer and Supplier of Innovative Secure Data Entry Solutions for the Financial Services Market**