eKrypto^{TM} Web-Enabled Secure PIN Pad

eKrypto^{TM} Technology For:

- **Web-Enabled Devices**

- **Secure**
  - **PIN Code Entry**
  - **PIN / Chip Verification**
  - **Password Entry**
  - **Access Control**
  - **Communications**

- **Banking, eCommerce & Healthcare Applications**

- **Windows RS232 & USB Serial Plug & Play Compliant (for easy installation)**

The eKrypto^{TM} Web-Enabled Secure PIN Pad is the optimum PIN entry device where security is of paramount importance. Whether for financial applications or access control this security device ensures integrity of communication between device and host. The user identity is verified by Secret PIN rather than traditional signature. The PIN as with all other secret data transmitted from the device can be encrypted by the eKrypto^{TM} Engine in the device controller. Therefore the data travels through the host PC/ Workstation encrypted.

All communication between the Secure PIN Pad and Host is managed within the eKrypto^{TM} Controller as per the instructions of the downloaded secure applets.

For each secure transaction to be performed with the PIN Pad a signed applet is downloaded to the Secure PIN Pad via the connected Host. Once the signature on the applet has been validated by the eKrypto^{TM} Controller a secure or unsecured session is initiated depending on the applet. In secure mode all data from device to host travels encrypted, the security level determined by the applet. The eKrypto^{TM} Controller contains three encryption engines, 3DES, SHA-1 and PKI.

Technical Specification

DIMENSIONS
174(L) x 88(W) x 54(H) mm
Weight: 850g

KEYPAD
16 Keys (4 x 4 key matrix)
10 million operations
Full travel, soft touch tactile
Audio Feedback

MSR READER (OPTIONAL)
1,000,000 passes dual track

SCR READER (OPTIONAL)
8 contacts, 500,000 insertions
Standard ISO 7816 Chip Card Interface
3v3 and 5v Chip Card Support
EMV 2000 Approved

DISPLAY
2 x 16 Character Backlit LCD

OPERATING TEMP
0°C to 50°C

KEYTOPS
Key top Legends and colours as per APACS40 recommendations

PC INTERFACE
RS232 or USB
Windows PnP compatible

HOST CABLE & POWER SUPPLY (Different Options)
Single straight 2 metre long type with 'Y' splitter for:
(a) DB9 and PS/2 PT-Connector for Power Supply, or;
(b) DB9 and external 5Vdc Power plug (option), or;
Single straight 2 meter long type for Bus powered USB port.

OPERATING SYSTEM
eKrypto^{TM} OS

STANDARDS
ISO 7816 SCR
EMV2000 Level 1 & 2 Approved
ISO 7811 MCR
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 1.5

eKrypto^{TM} Web-Enabled Secure PIN Pad

The eKrypto^{TM} Web-Enabled Secure PIN Pad is intended for use as a Secure PIN Pad for applications requiring Secret PIN Code Entry. The PIN Pad with optional Smart Card Reader is EMV2000 Level 1 Approved (Approval No. 11680 1003 400 20 CET).

The eKrypto^{TM} Web-Enabled Secure PIN Pad has a 2 x 16 character LCD and an integrated privacy shield. The LCD will serve to prompt the user to enter a PIN or perform other actions. J/XFS & XFS Middleware drivers and EMV2000 Level 2 Kernel available on request.

Technology Benefits

Security
- 3 x Crypto Engines
- PKI Enabled
- 3DES Enabled
- Secure Remote Key Loading
- Tamper Resistant Housing
- Privacy Shield

Features
- RS232 or USB Serial Host Interface
- PinPad Application for Secure PIN Entry as per ANSI X9.24
- MACing (Message Authentication Code) as per ANSI X9.19
- Web Enabled
- 16 Key PinPad
- Size: 174 (L) x 88 (W) x 54 (H) mm
- 16 x 2 LCD Display with Backlight
- Single Colour Charcoal Black Housing

Options
- Secure Desk Mounting Bracket (**)
- Magnetic Swipe Reader (MSR) available in single or dual track version (*)
- Smart Card Reader application Modules for EMV - PC/SC (**)
- 5 volt dc external power supply if PC power is not available on serial host connector (**)
- Smart Card Reader Hardware Platform (500,000 reader inserts) (*)
- Coloured Housing (*)
- Client logo Printing (*)
- Alternative keypad legend layout and colours (*)
- Alternative keypad technology can be discussed if additional vandal proofing is a requirement (*)

*   Factory Installed Option
**   Client Enabled Option

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eKrypto^{TM} PIN Pad EMV Solutions

Future Proof

The eKrypto^{TM} Secure PIN Pad is future proof as all of the firmware is remote programmable. The PIN Pad also supports remote key loading, can support up to 18 different applications and an application can be updated on every device in the field by loading a revised applet on the central host server.

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

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For further information on all eKrypto^{TM} solutions please visit www.eKrypto.com
Alternatively contact our sales team at sales@eKrypto.com