eKrypto™ Secure Image Terminal

eKrypto™ Secure

- **Check21 Image Capture**
- **Chip & PIN Verification**
- **PIN Code Entry**
- **Cheque Reading**
- **Access Control**
- **Communications**
- **Biometric Verification**
- **Digital Signing**
- **USB / IP Host Interface**

eKrypto™ Security Benefits

- **Secure Dual Sided Check21 Image Reader**
- **Chip & PIN Hybrid Chip & Magnetic Card Reader**
- **Secure PC/SC Smart Card Reader for Secure Log-On**
- **Programmable Endorser**
- **Additional 14 Programmable Hot Keys**
- **Remotely Programmable**
- **MICR, OCR & ICR Reader**
- **Single Host USB Cable**

Options:

- **Biometric Fingerprint Reader**
- **USB Downstream Port**
- **Integrated IP Host Interface**
- **J/XFS & XFS M/Ware Drivers**

The new eKrypto™ Check21 Keyboard is a Compact Image Reading Remote Programmable Keyboard providing the ideal solution for Retail Bank and Post Office Teller positions where Secure and Efficient Capture of Transaction Data is of paramount importance.

Features include integrated Dual Sided Check21 Image Reader to capture images of both sides of scanned Cheques, Utility Bills, etc., integrated application programmable Endorsement Stamp, PCI compliant hybrid Chip and Magnetic Payment Card Reader, separate ISO PC/SC compliant Smart Card Reader for Operator Log-On, Fingerprint Scanner for more secure Biometric Operator Log-On, 2 x 16 LCD for secure messaging and PIN entry confirmation, a secure dedicated port for connecting a PCI PIN Pad directly and also a high speed USB (480Mbps) downstream port for connecting additional devices such as receipt printer or mouse. Furthermore the eKrypto™ Check21 Keyboard has 14 programmable hot keys available in addition to the standard 12 function keys. XFS and J/XFS Middleware drivers and EMV2000 Level 2 Kernel available on request. This device is further complimented by the eKrypto™ range of Chip & PIN Pads.

For financial applications this security device ensures integrity of communication between device and host. For Secure Log-On Operator Identity is verified by Secret PIN (or Fingerprint optional).

Significant device maintenance savings can be achieved as application changes only require a smartlet revision. Further cost benefits and efficiencies are achieved through ease of archiving and speed of processing. The Keyboard is remotely programmable and supports secure remote key loading.

Technical Specification

DIMENSIONS
297 (D) x 410 (L) mm
Weight: 3.85 Kg

KEYBOARD
14 Additional Hot Keys
50 million operations
Full travel, soft touch tactile

CHIP & MAG CARD READER:
Hybrid MCR/SCR
8 contacts, 500,000 insertions
ISO 7816 Chip Card Interface
1v8, 3v3 & 5v Chip Card Support
EMV2000 Approved
3 Track MSR
1,000,000 passes dual track MSR

SMART CARD READER
8 contacts, 500,000 insertions
ISO 7816 Chip Card Interface
1v8, 3v3 & 5v Chip Card Support

IMAGE READER
Dual Sided Image Reader
2,000,000 passes
30+ Cheque Scan Per Minute
MICR: E13B, CMC7, CMC0
OCR / ICR

FINGERPRINT READER (OPTIONAL)
Optical Fingerprint Scanner

DISPLAY
2 x 16 Character LCD

OPERATING TEMP
0°C to 50°C

INTERFACE
USB2.0 High Speed (480Mbps)
Windows PnP compatible
IP Host Interface (Option)

HOST CABLE & POWER SUPPLY (Different Options)
Single straight 2m type with 'Y' splitter for USB & External Power

OPERATING SYSTEM
eKrypto™ OS

STANDARDS
Check21
ISO 7816 SCR / ISO7811
EMV2000 Level 1 & 2
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™ Secure Image Terminal

Product Applications

The eKrypto™ Web-Enabled Check21 Keyboard intended for use as:

- A Secure Teller Keyboard for Secure Image Reading of both paper based financial instruments such as cheques and utility bills. Integrated Chip & PIN Hybrid Card Reader (SCR & MSR) the Keyboard can perform secure Offline/Online PIN Verification when connected to PCI PIN Pad via dedicated Secure Port allowing the Teller to handle / inspect / insert the customer card for increased security and customer interaction. This procedure allows retention of the card in the event that fraud is detected.

- A Secure Teller Log-On Keyboard with dedicated PC/SC Teller / Supervisor Card Reader for secure access. Fingerprint Scanner option available for enhanced Biometric Security. This approach ensures secure auditable Teller Log-On and helps limit fraud.

The eKrypto™ Check21 Keyboard has integrated Dual Side Image Reader, PCI Compliant Chip & Magnetic Card Reader, Log-On Smart Card Reader and Secure LCD for security functions. Options include Fingerprint Scanner, integrated IP Host Interface and external USB High Speed Downstream Port for connecting additional USB device such as PIN Pad, Receipt Printer or Mouse. XFS & J/XFS Middleware drivers and EMV2000 Level 2 Kernel available on request.

Technology Benefits

Security

- **Chip & PIN Hybrid Reader**
- **Fingerprint Scanner**
- **Smart Card Log-On Reader**
- **Dedicated PIN Pad Port**
- **PKI & 3DES Enabled**
- **Programmable Document Endorser**
- **Secure Dual Sided Check21 Image Reader Extended with Additional MICR Read Head**

Features

- **USB2.0 Bus powered high speed end-point smart card keyboard**
- **Downwards compatible with standard USB PC keyboard.**
- **PIN Entry / Offline PIN Verification with inserted Smart Card**
- **Web Enabled**
- **PCSC compliant Smart Card Reader (500,000 card inserts)**
- **Smart Card Reader application Modules for PC/SC EMV**
- **Dual Side Image Reader**
- **Full Win XP Compact Keyboard**
- **Additional 14 Programmable Hot Keys**
- **16 x 2 LCD Display**
- **Keystroke life 50 million cycles**
- **Windows 2000 / XP OS supported**

Optional Features

- **Integrated IP Host Interface**
- **Windows Logon Software + User Cards**
- **Keyboard preloaded operator "PKI Key + Certificate"**
- **Fingerprint Scanner for Biometric Verification**

eKrypto™ Check21 Keyboard Features

- Dual Sided Image Reader
- USB 2.0 High Speed Downstream Port
- Chip & PIN Hybrid Reader (MSR & SCR)
- 2 x 16 LCD
- Smart Card Reader
- Fingerprint Scanner

eKrypto™ Secure Check21 Keyboard provides a total Bank or Post Office Teller Position Solution enabling optimum Teller Efficiency through integration of key Teller Devices in a Single Compact Standards Compliant Housing, Single USB Cable Teller Station with 14 Additional Hot Keys.

Future Proof

The eKrypto™ Check21 Keyboard enables banks to efficiently audit the reading and processing of paper media such as cheques, utility bills, etc. in full compliance with latest industry standards.

This solution helps speed up paper based requests processing with improved electronic archiving.

Optional Integrated IP Host Interface provides an ideal solution for Thin Client environments.

Electronic Trade Solutions the Designer and Supplier of Innovative Secure Data Entry Technology