eKrypto™ PINphab PIN Pad

- PCI PTS POI 5.1 Compliant PIN Pad
- Electronic National ID Card Support
- Linux OS with App Support
- Chip Card Reader
- Contactless Reader - NFC
- Advertise on 4.3” Colour Screen
- Optional
  - Electronic Signature Verification
  - Magnetic Stripe Reader
  - Biometric Fingerprint Sensor
  - EMV QR Code Scanner

The eKrypto™ PINphab is a PCI PTS POI 5.1 compliant PIN Pad with support for electronic National ID cards. Features include EMV 4.2 Smart Card Reader, EMV 2.6 Contactless Card Reader, Linux OS, full colour 480x272 widescreen backlit TFT touchscreen display, plus optional 3 Track Encrypted Magnetic Stripe Reader, Match On Card Fingerprint Sensor (FIDO options for cryptocurrency support) and EMV QR Code Scanner. Further features include full height privacy shield for secret PIN entry, vertical stylus holder slot and sloped ergonomic signing surface.

The new eKrypto™ PINphab PIN Pad is ideal for Retail Bank / Post Teller, Government – National ID, Hospitality and Healthcare counter requirements. The PINphab embraces the eKrypto™ Paper to Data philosophy allowing the capture and verification of electronic signatures, viewing of forms/conditions text on the colour touchscreen, display of user instructions on touchscreen, graphical user touch interface to support multiple service offerings, chip card reader for credit/debit/ID card, optional biometric fingerprint sensor and all in a PCI compliant device with integrated keypad for PIN entry and integrated full height privacy shield. The eKrypto™ PINphab has a 4.3" colour touchscreen and supports Linux Apps, including electronic signature capture.

This compact and highly durable device can perform Offline / Online PIN / Fingerprint and Signature verification, thereby allowing multi factor authentication and supporting the move to a paper free environment. If facial recognition (morphology) is required please contact us directly to discuss this option.

The eKrypto™ PINphab is the optimum device for electronic National ID applications from enrolment right through to digital signature applications with a myriad of biometric options available and intuitive design with large colour screen for user direction.

Technical Specification

DIMENSIONS
191(L) x 153(W) x 62(H) mm
Integrated privacy shield -
No need for additional shield

CPU
Freescale i.MX7 Dual ARM Cortex-A7 SoC, 1GHz

CO-PROCESSOR
ARM Cortex-M4, 200MHz

RAM
Up to 1GB DDR3L-1066

STORAGE
8GB expandable to 64GB on-board eMMC

DISPLAY
4.3’’ TFT display, 480x272
Active area 95x54 mm

RESISTIVE TOUCHSCREEN
4-wire resistive touchscreen
Capacitive touchscreen option

KEYPAD
16 Tactile Keys
5 million ops, long travel

SCR READER
8 contacts, 500,000 insertions
Standard ISO 7816 Chip Card interface
3v3 and 5v Chip Card support
EMV approved

CONTACTLESS READER
EMV, NFC, ISO14443, MIFARE
PayPass / PayWave support

MSR READER (Optional)
PCI SRED compliant
3 Track, Encrypting
1,000,000 passes triple track

FINGERPRINT READER (Optional)
FIPS-201 Fingerprint
Capacitance (FIDO options)

NETWORK (Optional)
Dual-band 2×2 WiFi
802.11a/b/g/n
Bluetooth 4.2 BLE

POWER
USB 5v/500mA power supply

USB
1x USB2.0 OTG host interface

OPERATING SYSTEM
Linux kernel 4.1.15

eKrypto™ PINphab PIN Pad

The eKrypto™ PINphab is designed around the i.MX7 Dual Core Microcontroller (ARM architecture with focus on low-power consumption) for multimedia applications.

The rich and versatile feature-set makes the PINphab a powerful platform for a wide range of industrial and financial applications such as point-of-sale, bank / post teller counter, National ID, healthcare and IoT gateways.

The eKrypto™ PINphab has a 4.3 inch Full-Colour 480 x 272 Widescreen Backlit TFT Display, Chip Card Reader and Contactless Card Reader (NFC, ISO 14443, plus optional Mifare, PayPass / PayWave & Contactless Passport support). The display can provide extended user information, terms or advertisements under software control and prompt user to present card, enter PIN, Signature, Fingerprint or perform other action. Electronic Signature Verification, 3 Track Magnetic Stripe Reader, and Fingerprint Sensor (Match On Card) options. J/XFS & XFS Middleware Drivers and EMV Level 2 Kernels also available.

Technology Benefits

Security

- PIN Verification
- PKI Enabled (Up to 4096 bits)
- 3DES Enabled
- AES Enabled
- Secure Remote Key Loading
- Secure Remote Firmware Update
- Tamper Responsive Housing
- Full Height Privacy Shield

Full Height Privacy Shield for PIN Entry

Features

- 16 Key PIN Pad with Online / Offline PIN Support
- USB Serial Host Interface
- Smart Card Reader (500,000 reader inserts)
- Contactless Card Reader
- 4.3 inch Full-Colour 480 x 272 Widescreen Backlit TFT Touchscreen Display (95 x 54 mm Active Area)
- Colour LCD can display customer focused adverts / messages and present contract terms allowing customer to sign electronically with verifiable recorded signature (Optional)

Options

- Fingerprint Sensor For Biometric Identification – CMOS Active Capacitance (Optical Sensor & FIDO options also available) (*)
- Magnetic Stripe Reader 3 Track (Encrypting, PCI Compliant) (*)
- Wi-Fi / Bluetooth as host interface (*)
- EMV QR Code Scanning (*)
- Contactless Passport Reading (*)
- Electronic Signature Verification
- Power: External 5.0V/3A Power Supply (*)
- Active low-power, rugged EM pen, 1024 pressure level (*)
- Housing Colour & Client Logo Printing Options (*)

(*) Factory Installed Option

eKrypto™ PINphab Features

Future Proof

The eKrypto™ PINphab PIN Pad with eID support offers a fresh new approach to meet the evolving Retail / Teller counter needs with the 4.3 inch colour touchscreen supporting a far greater range of services for the user such as electronic signature, user guidance, digital signage to promote new products & of course all in a PCI compliant PIN Pad with the smallest possible footprint!

OPEN TECHNOLOGY SOLUTIONS
Email: info@otsla.com
Website: www.OTSLA.com

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