

The ST4EX is the state of the art mobile terminal for the new generation of Chip-Based Identity cards. The unique design of the ST4EX caters for the most demanding field operating requirements with its rugged exterior and long battery life span.

The built-in Secure Access Module supports the use of digital keys for card schemes requiring high-security while the GSM/GPRS module provides mobility for high-speed data transfer and voice calls over mobile networks.



**MULTI-APPLICATIONS .....MULTI-CONFIGURATIONS CHOOSING THE HANDHELD FOR YOUR PROJECT HAS NEVER BEEN EASIER**



**OPTICAL FINGERPRINT SCANNER | SILICON FINGERPRINT SCANNER | 2D BARCODE | MAG. STRIPE | CAMERA | MIFARE | iCLASS | CONTACT CHIP READER | and MORE**

## Technology, Design & Benefits

- >The ST4EX is ideal for all smartcard reading and verification purposes due to its compact design and portability.
- >Lithium-Polymer technology promotes longer battery life span.
- >Rugged Design: IP64 ingress protection rating.
- >User friendly touch screen for easy data entry.
- >262K vibrant and vivid colour display under bright sunlight or night.
- >Durable and tamper resistant.
- >Multitasking ability as it supports contact and contactless smart cards including e-Passports.
- >Equipped with quad-band GSM for worldwide usage.
- >Offers a wider choice of connectivity — USB, WirelessLAN, GSM, Bluetooth, IrDA 1.2
- >Fast Intel® XScale® processor PXA270 520 MHz
- >Operates on most commonly used platforms — Windows® CE® 5.0.

## APPLICATIONS

### Law Enforcement

The device can be utilized by law enforcement agencies for the verification of identity using finger print and allows instant counter check with backend office.

### Mobile Registration & Polling Station

The device can be used for registration of voters as well as voting purposes even in the most remote area due to the portability of the device and setting up of the device is a breeze.

### Warehousing

It can be used to perform inventory control or stock taking by scanning on the product's barcode or electronic tag and updating the information to the centralized computing system.

### Mobile Banking

Financial or banking transactions can be carried out even in the most remote area where there are no financial institutions. By using this device, authorized personnel from recognized financial institutions can assist customers to perform banking transactions simply by updating the information of the transaction onto the customer's smart card and print out the transaction slip for record purpose.

### Oil & Gas Industry

The device could be used for monitoring of subsidized fuel by checking the fuel cardholder's entitlement before sales.

### Transportation System

Ticketing officers can use the device to check for fare evasion by electronic ticket holders by detecting their last boarding point.

### Health Care and Issuance Industry

The paramedic team or ambulance crews can use this device to retrieve the health record of a patient. By having a clear indication of the patient's medical history, the paramedic team could give out appropriate medical assistance to the patient even before reaching the hospital which could in turn saves the patient's life. Hospital staffs could also use the device to verify the patient's identity and check their insurance coverage before admitting them.



#### Model IRIS ST4ex

Processor Intel® XScale® PXA270 @ 520MHz  
 Operating System Windows® CE® 5.0  
 Memory 128MB Flash ROM  
 128MB SDRAM  
 Display 3.5" TFT (transflective)  
 262K color LCD  
 QVGA resolution (240 x 320)  
 User Interface Touchscreen and keypad buttons  
 Comm. Interfaces IrDA v1.2  
 USB1.1, Host & Client  
 Bluetooth v1.2  
 WirelessLAN IEEE802.11b/g  
 Quad-band GSM/GPRS  
 User Storage Expansion SD memory card slot (SDIO supported)  
 Audio Speaker and Mic, GSM hands-free jack  
 External battery 2x 4.2V 1200mAh, Li-Polymer Battery Packs  
 9V 3A, AC/DC Charger  
 Environmental Resistance IP64  
 Operating Temperature -10°C to 40°C  
 Operating humidity 5% to 90% RH, non-condensing  
 Dimensions (LxWxH) 188 x 94 x 38.5 mm (standard)  
 188 x 94 x 46 mm (standard with optical scanner)  
 Weight Approx. 400g (standard)  
 Approx. 550g (standard with optical scanner)

#### Smart Card Interface

Smart Card Reader Standard ISO7816. Part 1, 2 and 3  
 User Slot Landing contact slot with 200K minimum duty cycle  
 SAM/SIM Slots SAM x 3  
 SIM x 1

#### Contactless Interface

RFID Standard ISO14443, Type A and B  
 HID Standard (optional) ISO15693, Read/Write, iCLASS 2Kb and 16Kb  
 ISO14443, Type A, Read only, Mifare card serial  
 ISO14443, Type B2, Read/Write, iCLASS 16Kb  
 Frequency 13.56MHz

#### Fingerprint Scanner

Engine IRIS SmartCore2 (SC2)  
 SAGEM  
 Sensor Solid-state CMOS  
 UPEK  
 Active-capacitive  
 Supported Matching Algorithms  
 Precise Biometrics, BioLink, NEC, Trijay, SAGEM and others

#### Optical Scanner

Imager CMOS Sensor  
 Resolution 1.3 megapixel  
 SXGA (1,280 x 1,024 pixels)

#### OPTIONS:

Digital Camera  
 1D/2D barcode reader  
 Magnetic Strip reader  
 OCR Reader  
 RFID reader: MiFARE, iCLASS (HID)  
 Carrying Pouch



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