104SF SMART CARD & BIOMETRIC BY ACCURATUS

Professional Smart Card & Biometric Finger Print Reader Keyboard

Designed for PC

Order Code: KYB500-104SF-UBK

Accuratus 104SF - Professional grade USB full layout keyboard with World-renowned GemCore Smart Card Reader and NEXT Biometrics finger print reader

Keyboard Specifications

- USB2.0 full speed 'plug and play' connection
- All in one USB interface for the Keyboard, Smart Card reader and Biometric Finger print reader
- World renowned NEXT Biometrics patented active thermal sensing technology
- World renowned GemCore Smart Card Reader
- Fingerprint reader works with Windows 10 Hello
- Black case and keys (other colours made on request)
- Low profile full travel keys with industrial grade membrane key mechanism, offering 10M key strokes with an excellent tactile feeling
- Full UK English key layout with numeric keypad (other language layouts available on request)
- High quality clear easy read laser etched key legends for excellent character life span
- Fold out feet to allow for keyboard tilt
- Keyboard status LED's (Caps, Num, Scroll Lock)
- Brown box environment friendly packaging

Smart Card Reader (SCR) Specifications

GemCore proposes solutions to be the core on any smart card interface.It has been chosen and widely deployed by key players in security markets such as PC, payment, telecom markets and used for all kinds of smart card applications such as: User Authentication, Logical access control and secure logon, Physical access control, Home banking, E-commerce and Healthcare

- World renowned GemCore Smart Card Reader
- GemCore chips are compliant with all the market standards: PC/SC Microsoft WHQL, EMV level 1 V4.1, ISO7816, USB 2.0 and CCID1.0 (when applicable), Secure Pin Entry EAL3 (when applicable), RoHS
- Access to all ISO 7816 and EMV microprocessor cards (T=0, T=1) through PC/SC drivers
- Communication speed with the smarc card : up to 826Kbds (when supported by the SC)
- Synchronous cards through a comprehensive API
- 5V /55mA, 3V/50mA, 1.8V/20mA smart card power supply
- Full ISO7816 and EMV2000 compliances
- Short circuit protection
- Card removal detection when powered on
- ESD protection on card IOs: 8KV contact
- Drivers for 10, 8.1, 8, 7, Vista, XP, Server 2008, Server 2003, CE
- Vista Microsoft CCID class driver compliant
- CT/API based on MCT/BCS Specs
- Synchronous API
- Apple Mac OS driver : 8KV contact
- Other OS driver : CILK library (free Gemalto CCID source code)

Biometric Fingerprint Reader Specifications

NEXT Biometrics has a number of advantages that have led to it's position as one of the market leaders for fingerprint sensor technology. NEXT's ability to create sensors covering a large area allow the company to deliver accurate results in real life conditions. NEXT systems are able to provide accurate results even when reading fingerprints that are less than ideal, covering issues like cut, worn, dry, wet or feature poor fingers. Sensor systems based on NEXT technology allow the ability to serve very close to 100 percent of targeted user groups

- World renowned NEXT Biometrics patented active thermal sensing technology
- Active sensing area 11.9 x 16.9 mm with 180 x 256 pixels
- Resolution 385ppi (pixel size 66μm x 66μm)
- 256 levels of gray scale
- Image scan time 0.53s
- ESD protection; ±8KV contact discharge, ±15KV air discharge according to IEC 61000-4-2
- Mechanical durability: 2 million touches @ 2.45N
- Durable lifetime coating for scratch resistance
- Operating conditions -10°C to +60°C at 95% RH (non condensing)
- Storage conditions -20°C to +70°C at 95% RH (non condensing)

By using thermal sensors instead of capacitive fingerprint sensors, NEXT's technology registers the miniscule temperature differences within the features of a fingerprint. In contrast, capacitive fingerprint sensors use a radio frequency-based signal, in which it measures the signal-response differences between fingerprint features. While both methods operate at pixel-level on the sensor, NEXT says that there is a strong correlation between the sensor's size and security level and that more fingerprint details can be detected and compared in a larger surface area of the sensor. **Bigger size = Higher Security**. In other words, the more identification points that are found in the fingerprint, the better the basis of identification.The "full-size" sensors measure 11.9mm by 16.9mm, resulting in a sensing area of approximately 201 square millimetres. In comparison, the fingerprint scanners used in Apple and Samsung smartphones offer sensing areas ranging from 30 to 45 square millimetres.

Physical Specifications

- Dimensions: 472 x 183 x 47.5mm (l x w x h)
- Cable length: 1.5M

ACCURATUS

Accuratus: Latin translation - 'accurate, precise, with care', CERATECH - Originators of the Accuratus brand - established in 1981