

K104I-SMF



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Main Features

Professional Keyboard with built-in fingerprint sensor, smart card reader and magstripe reader

Powered by Next Biometric sensor with active thermal sensing

Low profile key design with tactile feeling

Full 104/105 key design, support US and EU layout

Support firmware upgrade

Fingerprint sensor supports Windows HELLO interface

Durable legends printed with UV coating

Sealed membrane to increase the membrane circuit life

Fingerprint sensor Spec

Sensor technology: NEXT Active Thermal sensing (patented)
Active Sensing Area: 11.9 x 16.9 mm
Pixels: 180 x 256
Resolution: 385 ppi (pixel size 66 μ m * 66 μ m)
Gray Scale Levels: 256
Image Scan Time: 0.53s
ESD Protection: \pm 8 kV contact discharge , \pm 15 kV air discharge
Mechanical Durability: 2 million touches @ 2.45N
Scratch Resistance: durable lifetime coating

Smart Card Reader Spec

Access to all ISO-7816 and EMV CPU cards (T=0, T-1) through PC/SC drivers
Communication Speed with the smart card: up to 826Kbps (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
Use high quality landing contact type smart card connector
Short circuit protection
Card removal detection when powered on
ESD protection on card los: 8KV contact
Drivers support: PC/SC, CT/API, CCID, Synchronous API

Technical Data

[Electronics]

Power supply: +5V/DC +/-10%
Current input: <100mA
Interface: USB2.0 (USB-A), Full Speed
LED indicators: Cap / Num / Scroll / IC Card

[Mechanical]

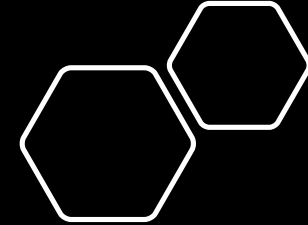
Number of keys:
- 104: US ANSI layout
- 105: European ISO layout
Individual key life cycle: 10 million key strokes
Key switch technology: rubber dome over sealed membrane
Key actuation force: 65g +/- 10g
Key travel: 3 +/- 0.5mm
Card swipe speed: 10 to 100 cm/s; Speed:3-125 ips at 75 BPI; 3-50 ips at 210 BPI
Magnetic head life: 500,000 swipe cycles
Smart Card Connector Life: 500,000 insertions

[Others]

Storage temperature: -40°C to +55°C
Operating temperature: 0°C to +45°C
Operating humidity: 40% to 90%
Dimensions: 472 x 183 x 47.5 mm
Certificate / Compliance: FCC, CE / RoHS

MagStripe Reader Features

MagStripe header, tailer, track sequence, encoding are programmable
Comply with ISO 7812, IBM standards, AAMVA, JIS-2
Support multi-country code settings
Support programmable MSR setting for the header, tailer, separator, suffix and prefix, track sequence
Track 1: 210BPI with max 76 characters
Track 2: 210BPI with max 107 characters or 75BPI with max 37 characters
Track 3: 210BPI with max 107 characters
Card swipe speed: 10 to 100 cm/s; Speed:3-125 ips at 75 BPI; 3-50 ips at 210 BPI
500,000 swipe cycles



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