K104I-SF

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Main Features

Professional Keyboard with built-in fingerprint sensor, smart card reader
Powered by Next Biometrtic 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

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 Ios: 8KV contact
Drivers support: PC/SC, CT/API, CCID, Synchronous API

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 μm * 66 μm)
Gray Scale Levels: 256
Image Scan Time: 0.53s
ESD Protection: ±8 kV contact discharge , ±15 kV air discharge
Mechanical Durability: 2 million touches @ 2.45N
Scratch Resistance: durable lifetime coating
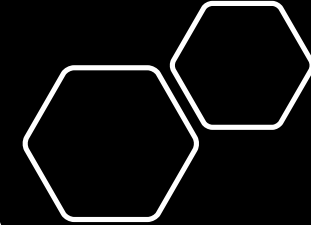
Technical Data
[Electronics]
Power supply: +5V/DC +/-10%
Current input: <100mA
Interface: USB2.0 (USB-A), Full Speed
LED indicators: Cap / Num / Scroll / IC Card

[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
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

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