

U.are.U 4000B Module

Fingerprint Scanner Module

Part Number 50007-001



Product Description

The **U.are.U 4000B Module** is a miniature fingerprint scanner designed for integration into OEM equipment where fingerprint authentication is needed.

This small, self-contained module optically records the fingerprint image when the user touches the glowing window. Optical technology is universally acknowledged to give the highest quality fingerprint images, as well as being lowest in cost and highest in reliability.

The **U.are.U 4000B Module** is designed to simplify OEM integration. The module is sealed from dust and it includes convenient mounting features. The on-board electronics automatically control calibration, image encryption, and data transfer over USB.

DigitalPersona's award-winning fingerprint matching algorithm, U.are.U applications, and developer tools are perfectly suited to this device.

Applications

- PC Peripherals, Keyboards
- Kiosks, Point-of-Sale terminals
- Physical Entry Devices
- Time and Attendance Devices
- Government and Law Enforcement applications
- Home and Office Use

Features

- Small form factor
- Excellent image quality
- Encrypted image data
- Fake finger rejection
- Low cost
- Rugged
- Works well with dry, moist, or rough fingerprints
- Compatible with all U.are.U applications and developer kits
- Custom Keyboard Interface
- Compatible with Windows XP, 2000, Me, 98, NT4.0 and Windows Server 2003

Key Specifications

- Pixel resolution:
 - 512 dpi (average x,y over the field)
- Image capture area:
 - 14.6 mm (nom. width at center)
 - 18.1 mm (nom. length)
- 8-bit grayscale (256 levels of gray)
- Module size: approx. 57.7 mm x 35.8 mm x 11.0 mm
- Compatible with USB 1.0, 1.1 and 2.0 (Full-speed) specifications

Part number	Data interface	Fingerprint Surface
50007-001	Full-speed USB	Silicone over acrylic

Ratings

	50007-001
Supply Voltage	5.0V ±5%
Supply Current – scanning	190 mA (Typical)
Supply Current – idle mode	140 mA (Typical)
Supply Current – suspend mode	1.5 mA (Maximum)
ESD Susceptibility	>15 kV, mounted in case
Temperature, Operating	0 - 40 C
Humidity, Operating	20% - 80% non-condensing
Temperature, Storage	-10 - 60 C
Humidity, Storage	20% - 90% non-condensing
Image data	8-bit grayscale
Standards Compliance	FCC Class B, CE, USB, WHQL

	50007-001
Connector type	Hirose DF13-5P-1.25DS/equivalent
Pin 1	+5 V
Pin 2	Ground
Pin 3	Ground (Shield)
Pin 4	USB D-
Pin 5	USB D+

Connector Pinout

Mechanical Specification:

Representante Autorizado:

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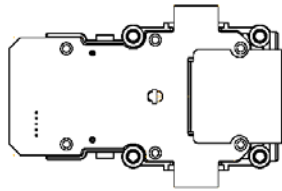
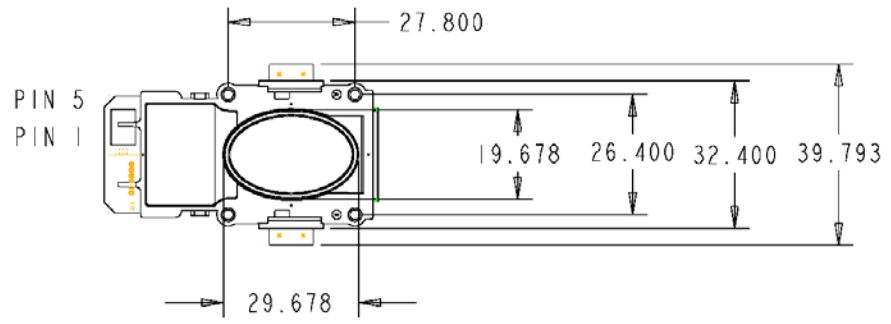
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Technical data subject to change without notice

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