



# U.are.U® 4000B Module

## USB Fingerprint Reader Module

### Target Applications

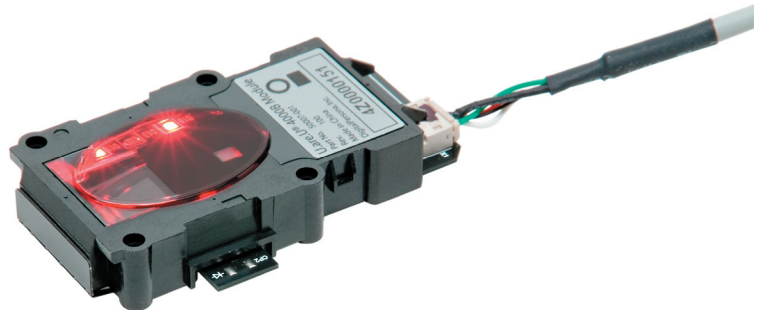
- PC peripherals, keyboards
- Kiosks, point-of-sale terminals
- Physical entry devices
- Time and attendance terminals

### Features

- Small form factor
- Excellent image quality
- Encrypted fingerprint data
- Latent print rejection
- Counterfeit finger rejection
- Rugged
- Works well with dry, moist, or rough fingerprints
- Custom keyboard interface
- Compatible with Windows® XP, 2000, Me, 98, NT® 4.0 and Windows Server 2000, 2003

### Key Specifications

- Pixel resolution: 512 dpi (average x, y over the scan area)
- Scan capture area: 14.6 mm (nom. width at center) 18.1 mm (nom. length)
- 8-bit grayscale (256 levels of gray)
- Module size (approximate): 60.2 mm x 39.8 mm x 11.0 mm
- Compatible with USB 1.0, 1.1 and 2.0 (Full Speed) specifications
- Indoor, home and office use



### Product Description

The U.are.U 4000B Module is a miniature USB fingerprint reader designed for integration into OEM equipment where fingerprint verification is needed.

This small, self-contained module optically scans the fingerprint when the user touches the glowing window. Optical technology gives the highest quality fingerprint scans and reliability.

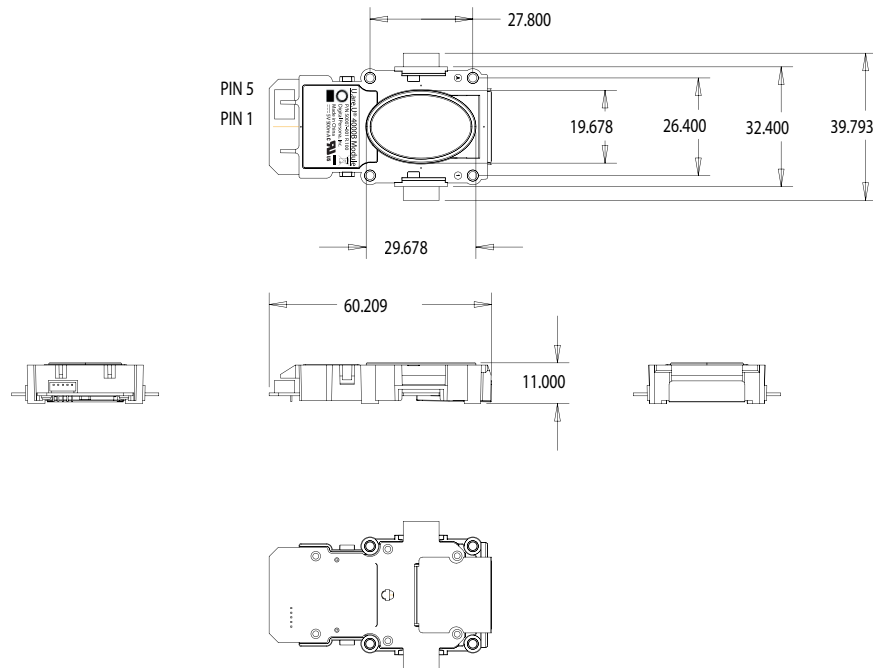
The U.are.U 4000B Module is designed to simplify OEM integration. The module is sealed from dust and includes convenient mounting features. The on-board electronics automatically control calibration, encryption, and data transfer over the USB interface.

The U.are.U 4000B Module and DigitalPersona® Fingerprint Recognition Engine have an unmatched ability to authenticate even the most difficult fingerprints accurately and rapidly. Digital Persona Inc.'s enterprise solutions and developer tools are perfectly suited to this device.



digitalPersona.

## Mechanical Specifications



## Ratings

<b>Supply Voltage</b>	5.0V $\pm$ 5%
<b>Supply Current—scanning</b>	190 mA (Typical)
<b>Supply Current—idle mode</b>	140 mA (Typical)
<b>Supply Current—suspend mode</b>	1.5 mA (Maximum)
<b>ESD Susceptibility</b>	>15 kV, mounted in case
<b>Temperature, Operating</b>	0 - 40 C
<b>Humidity, Operating</b>	20% - 80% non-condensing
<b>Temperature, Storage</b>	-10 - 60 C
<b>Humidity, Storage</b>	20% - 90% non-condensing
<b>Scan data</b>	8-bit grayscale

*Data subject to change without notice.*

## Connector Pinout

Pin 1:	+5V
Pin 2:	Ground
Pin 3:	Ground (shield)
Pin 4:	USB D-
Pin 5:	USB D+

## Connector Type:

Hirose DF13-5P-1.25DS/equivalent



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