HID®

DigitalPersona®
4500 Module

APPLICATIONS:

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

USB FINGERPRINT READER MODULE

The DigitalPersona® 4500 Module is a miniature USB fingerprint reader designed for integration into OEM equipment where fingerprint verification or identification is needed.

This 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 DigitalPersona 4500 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 "Small Footprint Outline" version of the module is ideal for space-constrained applications such as keyboards, touch screens and point-of-sale (POS) terminals.

The DigitalPersona 4500 Module is designed for use with your DigitalPersona Biometric Software Development Kit and authenticates even the most difficult fingerprints accurately and rapidly.

Enterprise solutions and developer tools from HID Global® are perfectly suited to this device.

FEATURES:

- Small form factor
- Blue LED (in idle mode)
- Excellent image quality

- Encrypted fingerprint data
- Latent print rejection
- Counterfeit finger rejection
- Rugged

- Works well with dry, moist, or rough fingerprints
- Compatible with DigitalPersona SDKs

SPECIFICATIONS

Product Name	DigitalPersona® 4500 Module	
Part Number	**50012-001** - Standard Outline; **50012-F01** - Small Footprint	
Dimensions	Standard outline (approximate): 60.2 mm x 32.4 mm x 11.0 mm	
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)	
Supply Voltage	5.0V ±5%	Pin 1: +5V
Supply Current - Scanning	< 100 mA (Typical)	Pin 2: Ground
Supply Current - Idle Mode	120 mA (Typical)	Pin 3: Ground (shield)
Supply Current - Suspend Mode	< 0.5 mA (Maximum)	Pin 4: USB D-
ESD Susceptibility	>15 kV	Pin 5: USB D+
Environmental	Indoor, home and office use	
Operating Temperature	0° - 40° C	
Operating Humidity	20% - 80% non-condensing	
Storage Temperature	-30° - 70° C	
Storage Humidity	10% - 90% non-condensing	
Scan Data	8-bit grayscale (256 levels of gray)	
Compatibility	USB 1.0, 1.1 and 2.0 (Full Speed) specifications	
Standards Compliance	RoHS, UL, USB, WHQL	
Weight	16g	
Image Distortion	< 1% (Typical)	
Speed of Image Transfer	<0.17 seconds	
Interface	USB 2.0 Full-speed High Power Device	
Encryption	Proprietary 32-bit polynomial encryption with rolling key	
Connector Type Standard Type	Hirose DF13-5P-1.25DS/equivalent	
Connector Type Small Footprint	Hirose DF13-5P-1.25DSA/equivalent	

Data subject to change without notice.

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