

# DigitalPersona<sup>®</sup> 4500 Module



## APPLICATIONS:

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

## USB FINGERPRINT READER MODULE

The DigitalPersona<sup>®</sup> 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<sup>®</sup> are perfectly suited to this device.

## EXTENDED ACCESS TECHNOLOGIES

### 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

<b>Product Name</b>	<b>DigitalPersona® 4500 Module</b>	
<b>Part Number</b>	50012-001 - Standard Outline; 50012-F01 - Small Footprint	
<b>Dimensions</b>	Standard outline (approximate): 60.2 mm x 32.4 mm x 11.0 mm	
<b>Pixel resolution</b>	512 dpi (average x, y over the scan area)	
<b>Scan capture area</b>	14.6 mm (nom. width at center); 18.1 mm (nom. length)	
<b>Supply Voltage</b>	5.0V ±5%	Pin 1: +5V
<b>Supply Current - Scanning</b>	< 100 mA (Typical)	Pin 2: Ground
<b>Supply Current - Idle Mode</b>	120 mA (Typical)	Pin 3: Ground (shield)
<b>Supply Current - Suspend Mode</b>	< 0.5 mA (Maximum)	Pin 4: USB D-
<b>ESD Susceptibility</b>	>15 kV	Pin 5: USB D+
<b>Environmental</b>	Indoor, home and office use	
<b>Operating Temperature</b>	0° - 40° C	
<b>Operating Humidity</b>	20% - 80% non-condensing	
<b>Storage Temperature</b>	-30° - 70° C	
<b>Storage Humidity</b>	10% - 90% non-condensing	
<b>Scan Data</b>	8-bit grayscale (256 levels of gray)	
<b>Compatibility</b>	USB 1.0, 1.1 and 2.0 (Full Speed) specifications	
<b>Standards Compliance</b>	RoHS, UL, USB, WHQL	
<b>Weight</b>	16g	
<b>Image Distortion</b>	< 1% (Typical)	
<b>Speed of Image Transfer</b>	<0.17 seconds	
<b>Interface</b>	USB 2.0 Full-speed High Power Device	
<b>Encryption</b>	Proprietary 32-bit polynomial encryption with rolling key	
<b>Connector Type Standard Type</b>	Hirose DF13-5P-1.25DS/equivalent	
<b>Connector Type Small Footprint</b>	Hirose DF13-5P-1.25DSA/equivalent	

*Data subject to change without notice.*



For more information, please [click here](#).

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