



EikonTouch 510 Reader

APPLICATIONS

- Desktop PC security
- Mobile PC security
- Custom applications

FEATURES

- Steelcoat® for durability
- Small form factor
- Works well with dry, moist or rough fingerprints
- High-quality fingerprint image
- Multiple cable lengths and connectors

SILICON USB FINGERPRINT READER

The EikonTouch 510 USB capacitive fingerprint reader provides quick and reliable biometric authentication. Our patented technology reaches up into the ridges and valleys of the fingerprint to capture fine print details, resulting in the ability to capture a wide range of fingerprints.

Our Digital ID Hardware Engine companion processor enables match-on-device and OTP generation in secure, dedicated hardware.

Designed for use with HID software, the EikonTouch is also available with a Software Development Kit that

provides flexible APIs to enable fast integration with a broad range of applications. Multiple cable lengths and connector configurations are available to meet your use case requirements.

Whether you are an enterprise customer or a system integrator, our biometric identity verification solutions provide a natural extension to your security system and applications.

SPECIFICATIONS

Product Name	EikonTouch 510 Reader
COMPACT FORM FACTOR	
Fingerprint Sensor	TCS1S (touch)
Package Size (mm)	84 x 33.8 x 14.3
Scanned Finger Area (mm)	12.8 x 18
Pixel Array Size (pixels)	256 x 360
Weight (g)	74
Cable Length (cm)	50 or 180
HIGH PERFORMANCE	
Acquisition Speed	5.5 frames/sec
Image Resolution	508 dpi
Grayscale Image Depth	8-bit (256 levels)
Interface	USB 2.0 full speed (Type A) or Micro USB (Type B)
SECURE	
USB Data Encryption	AES-256
On-board Data Storage	256 bytes for private data (optional)
RUGGEDIZED	
ESD Protection	IEC 61000-4-2 level 4: 15kV air, 8kV contact
Ingress Protection	IP 63 for moisture and dust protection
Operating Temperature	0° to + 40° C
Protective Coating	> 4 million touches
Humidity	5% to 93% RH @ 30° C
Certification	CE/FCC/USB2.0/WHQL
EFFICIENT POWER MANAGEMENT	
Power Imaging	~ 120 mA @ 5V
Power Standby	~ 1 mA @ 5V
INTEGRATION EASE	
OS Support	Support for Windows®, Linux® and Android® operating systems
Development Kit Options	DigitalPersona® SDK



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EikonTouch® TC510 Capacitive Fingerprint Reader



APPLICATIONS

- Desktop PC security
- Mobile PC security
- Point-of-Sale
- Multi-user applications

FEATURES

- Steelcoat® provides added durability – a requirement in high-traffic applications
- On device processing for template generation, matching and storage
- Works well with dry, moist or rough fingerprints
- Encrypted USB communication
- PAD (Presentation Attack Detection)
- Multiple USB connectors and cable lengths available

SILICON USB FINGERPRINT READER

The EikonTouch® TC510 USB capacitive fingerprint reader provides quick and reliable biometric authentication.

The EikonTouch TC510 uses patented technology to capture fine print details resulting in the ability to capture a wide range of fingerprints.

The Steelcoat surface of the TC510 provides added sensor durability which is ideal for high traffic and multi-user applications.

The DigitalPersona® Biometric Software Developer Kit (SDK) provides flexible APIs to enable fast integration of the EikonTouch® TC510 into a broad range of applications. Multiple cable lengths and connector configurations are available to meet your use case requirements.

The EikonTouch® TC510 fingerprint reader is a USB peripheral perfect for individual desk-top users. Utilizing the same proven compact design as our DigitalPersona® 4500 optical fingerprint reader the TC510 conserves desk space with a professional, modern housing design.

This form factor works well in a wide range of vertical markets including government, point-of sale and other logical access control applications. Superior accuracy and usability are a result of the improved finger guide ergonomics and the LED which is located just above the sensor to provide user feedback during the biometric capture and matching process. The TC510 housing is IP65 rated to protect against dust and moisture penetration. This capability supports device cleaning including up to 70% isopropyl alcohol.

Whether you are an enterprise customer or a system integrator, our biometric identity verification solutions provide a natural extension to your security system and applications.



SPECIFICATIONS

Product Name	EikonTouch® TC510 Capacitive Fingerprint Reader
Model Number	TC510
COMPACT FORM FACTOR	
Fingerprint Sensor	TCS1S (touch)
Package Size (mm)	35 x 63.5 x 14.2
Scanned Finger Area (mm)	12.8 x 18
Pixel Array Size (pixels)	256 x 360
Weight (g)	124
Form Factor	Same housing as the DigitalPersona 4500 optical fingerprint reader with a weighted base for added stability.
USB Cable & Connector Options	Cable lengths: 20 cm or 183 cm (7.8 or 72 in.) lengths USB Connectors: Type-A, Micro-B or Type C
HIGH PERFORMANCE	
Acquisition Speed	5.5 frames/sec
Image Resolution	508 dpi
Grayscale Image Depth	8-bit (256 levels)
Interface	USB 2.0 full speed
SECURE	
USB Data Encryption	Up to AES-256
On-board Data Storage	Up to 100 finger templates
RUGGEDIZED	
ESD Protection	IEC 61000-4-2 level 3: 8kV air, 6kV contact
Ingress Protection	IP 65 for moisture and dust protection
Operating Temperature	-10° to 50° C
Protective Coating	> 4 million touches
Humidity	5% - 95% RH
Certification	CE/FCC/WHQL/UL / RoHS / Reach / WEEE
EFFICIENT POWER MANAGEMENT	
Power Imaging	- 130 mA @ 5V
Power Standby	- 1 mA @ 5V
INTEGRATION EASE	
OS Support	Support for Windows®, Linux® and Android® operating systems
Development Kit Options	DigitalPersona® Biometric SDK supports a variety of thin client and browser plug-in options



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

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