

HID® EikonTouch® TC510 Capacitive Fingerprint Reader

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 TC510 fingerprint reader provides on-board processing for image capture and template generation, matching and storage. This reader also protects sensitive data to and from the device using encryption up to AES-256.

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 desktop users. Its modern, compact design conserves desk space.

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.

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.



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
- ISO/IEC 30107-3, Level 1 Presentation Attack Detection (PAD) certified
- Multiple USB connectors and cable lengths available

APPLICATIONS:

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

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| Product Name | EikonTouch® TC510 Capacitive Fingerprint Reader |
| | FINGERPRINT IMAGING SYSTEM |
| Technology | Capacitive silicon, TCS1S HID® TouchChip® |
| Output image resolution | 508 dpi |
| Scan Capture Area | 12.8 mm x 18 mm / 256 x 360 pixels |
| Life Expectation /Coating | min. 4 million touches, Steelcoat® |
| | BIOMETRIC FUNCTIONS |
| Image output format | <ul style="list-style-type: none"> • Grayscale Image Depth • 8-bit (256 levels) |
| | SECURITY FEATURES |
| Presentation Attack Detection (PAD) | <ul style="list-style-type: none"> • ISO/IEC 30107-3, Level 1 Presentation Attack Detection (PAD) certified • Live Finger Detection (LFD) |
| USB Data Encryption | Up to AES-256 |
| On-board Data Storage | Up to 100 finger templates |
| | ENVIRONMENTAL RANGE |
| Temperature, Operating | -10° to +50° C |
| Humidity, Operating | 5% to 95% RH, non-condensing |
| | INTERFACE |
| USB | <ul style="list-style-type: none"> • USB 2.0 Full Speed • USB A, USB Micro-B, USB-C connectors available, 20 cm or 183 cm cable |
| Operating systems supported | Windows®, Linux® and Android® |
| | FORM FACTOR & DURABILITY |
| Overall dimensions | 63.5mm L x 35mm W x 14.2mm H |
| Weight | 124 grams |
| Enclosure | IP65 for moisture and dust protection |
| | POWER SUPPLY REQUIREMENTS |
| Power Supply Voltage | 5.0 VDC supplied by USB |
| Supply Current - Scanning | ~ 130 mA |
| Power Supply Current - Standby | ~ 1 mA |
| | STANDARDS COMPLIANCE |
| Device Certifications | India UID STQC, ChinaID UL, FCC, CE |
| Environmental | Reach, WEEE, RoHS |
| | DEVELOPMENT KIT OPTIONS |
| Software Development Kit (SDK) | DigitalPersona® Biometric SDK supports a variety of thin client and browser plug-in options |

Data subject to change without notice.



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For more information about HID Global's single finger readers, [click here](#).