

HID® EikonTouch® TC510

Capacitive 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.

In addition to the standard USB desktop versions, we're also offering the Lightweight (LW) version. The LW version weighs only 23 grams (vs. 124 grams on standard version) with a very short cable (only 5mm), an ideal fit for mobile applications.

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) compliant
- Multiple USB connectors and cable lengths available

APPLICATIONS:

- Desktop PC security
- Mobile PC security
- Point-of-sale
- Multi-user applications
- Lightweight (LW) version for mobile applications

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) compliant • 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 • LW version: USB-C, 5mm cable
Operating systems supported	Windows®, Linux® and Android®
	FORM FACTOR & DURABILITY
Overall dimensions	<ul style="list-style-type: none"> • 63.5mm L x 35mm W x 14.2mm H • LW version: 63.5mm L x 35mm W x 12.5mm H
Weight	<ul style="list-style-type: none"> • 124 grams • LW version: 23 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 BIS 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



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