

Eikon® Readers

Silicon USB Fingerprint Readers



APPLICATIONS

- Desktop PC security
- Mobile PC security
- Custom applications

FEATURES

- FIPS 201 PIV certified
- SteelCoat for durability
- Small form factor
- Works well with dry, moist or rough fingerprints
- High quality fingerprint image

PRODUCT DESCRIPTION

The Eikon family of USB capacitive fingerprint readers provide quick and reliable biometric authentication. Our patented technology reaches up into the ridges and valleys of the fingerprint to capture fine print details. The result is the ability to capture a wide range of fingerprints. The Digital ID Hardware Engine companion processor performs match-on-device and OTP generation in secure, dedicated hardware.

Crossmatch offers three capacitive fingerprint readers in the Eikon family:

- EikonTouch 710 - The only touch silicon FIPS 201 PIV certified single finger capture device
- EikonTouch 510 - A SteelCoat protective coating provides added protection of the fingerprint reader for rugged environments
- Eikon II - A swipe reader ideal for single user applications

Eikon fingerprint readers are designed for use with Crossmatch's software including our authentication solution, DigitalPersona® Pro Enterprise. Our Software Development Kits offer flexible APIs to enable fast integration with a broad range of applications. Whether you are an enterprise customer or a system integrator, Crossmatch's biometric identity verification solutions provide a natural extension to your security system and applications.

ABOUT CROSSMATCH

Crossmatch helps organizations solve their identity management challenges through biometrics. We empower governments, law enforcement agencies, banks, retailers and other enterprises to mitigate risk, drive productivity and improve service levels. Our solutions are built on consultative expertise, refined best practices and the application of advanced biometrics technologies. Crossmatch understands the forces of change in the markets we serve and we develop solutions that anticipate customer requirements. Our network of consultative and technical service experts collaborate with customers in more than 80 countries worldwide.

Learn more at www.crossmatch.com

EIKON TOUCH 710 / 510

EIKON II

COMPACT FORM FACTOR

Fingerprint Sensor	TCS1C (touch)	TSC4C (swipe)
Package Size (mm)	84 x 33.8 x 14.3	84 x 33.8 x 14.3
Scanned Finger Area (mm)	12.8 x 18	9.6 x 25
Pixel Array Size (pixels)	256 x 360	192 wide
Weight (g)	74	68

HIGH PERFORMANCE

Acquisition Speed	5.5 frames/sec	Up to 39 cm/sec
Image Resolution	508 dpi	508 dpi
Grayscale Image Depth	8-bit (256 levels)	8-bit (256 levels)
Interface	USB 2.0 full speed	USB 2.0 full speed

SECURE

USB Data Encryption	AES-56 (no export restriction) AES-128 (export restrictions)	Proprietary, private-channel encryption
On-board Data Storage	256 bytes for private data (optional)	Up to 15 templates and/or optional private data

RUGGEDIZED

ESD Protection	IEC 61000-4-2 level 4: 15kV air, 8kV contact	IEC 61000-4-2 level 3: 8kV air, 6kV contact
Ingress Protection	IP 63 for moisture and dust protection	None
Operating Temperature	0° to +40° C	0° to +40° C
Protective Coating	> 2 million touches (Eikon 710) > 4 million touches (Eikon 510)	> 10 million swipes
Humidity	5% to 93% RH @ 30° C	5% to 93% RH @ 30° C
Certification	CE/FCC/USB2.0/WHQL	CE/UL/VCCI/FCC/USB2.0/WHQL

EFFICIENT POWER MANAGEMENT

Power Imaging	~ 120 mA @ 5V	~ 100 mA @ 5V
Power Standby	~ 1 mA @ 5V	~1350 uA @ 5V

INTEGRATION EASE

OS Support	Windows® XP, Windows Vista®, Windows 7, Windows 8, CE, Linux® Kernel 2.6 and later, and Android® 4.0 and later
Development Kit Options	Eikon USB Reader Developer Kit



Eikon Touch 710



Eikon II



Eikon Touch 510

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