

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 two 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 fingerprint readers are designed for use with Crossmatch software. 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, our 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. Our enrollment and authentication solutions are trusted to create, validate and manage identities for a wide range of government, law enforcement, financial institution, retail and commercial applications. Our solutions are designed using proven biometric technologies, flexible enrollment and strong multi-factor authentication software, and deep industry expertise. We offer an experienced professional services capability to assess, design, implement and optimize our identity management solutions for a customer's individual challenges. Our products and solutions are utilized by over 200 million people in more than 80 countries.

EIKONTOUCH 710 / 510

COMPACT FORM FACTOR

Fingerprint Sensor	TCS1C (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	

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	AES-56 (no export restriction) AES-128 (export restrictions)	
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	> 2 million touches (Eikon 710) > 4 million touches (Eikon 510)	
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	Windows® XP, Windows Vista®, Windows 7, Windows 8, CE, Linux® Kernel 2.6 and later, and Android® 4.0 and later	
Development Kit Options	EikonTouch Reader Developer Kit	



EikonTouch 710



EikonTouch 510

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