

Eikon® Family of USB Fingerprint Readers

The Eikon family of USB fingerprint readers provide quick and reliable biometric authentication by leveraging UPEK's proven technology, from swipe sensors found in millions of laptops to government certified touch sensors. UPEK's Software Development Kits (SDKs) offer flexible APIs to enable fast integration with a broad range of applications.

Features*

Proven technology – The Eikon fingerprint readers leverage the same fingerprint sensor technology embedded into millions of laptops, keyboards, physical access devices, and ID card readers relied upon by governments, hospitals, banks, and enterprises for secure and convenient authentication everyday.

Government certified – UPEK offers the only silicon fingerprint sensor that is FIPS 201 certified.

Patented technology – UPEK's patented HD3D™ sensing technology senses a finger's live layer, enabling UPEK sensors to recognize virtually anyone in any condition.

Compact – Silicon sensing technology enables smaller packaging than optical sensing technology. The Eikon's sleek design won the CES Best of Innovations Award.

Secure – UPEK's Digital ID Hardware Engine™ companion processor performs processes such as match-on-device and OTP generation in secure, dedicated hardware. Anti-spoofing technology counters attempts to fool the fingerprint reader.

Easy to integrate – UPEK's SDKs offer flexible APIs to enable a broad range of applications that work across UPEK swipe and touch sensors for ease of integration.

Products



EikonTouch 700

- FIPS 201 certified image quality for a single finger capture device.
- Touch sensor ideal for multi-user applications where no user training is required.



EikonTouch 500

- Large image capture area delivers optimal usability.
- Touch sensor ideal for multi-user applications where no user training is required.
- SteelCoat protective coating provides added protection of fingerprint sensor for rugged environments.



EikonTouch 300

- Ideal for cost-sensitive applications that require touch-based authentication.
- Touch sensor ideal for multi-user applications where no user training is required.
- SteelCoat protective coating provides added protection of fingerprint sensor for rugged environments.



Eikon

- Original Eikon, winner of the CES Best of Innovations Award.
- Swipe sensor ideal for personal (single user) applications.
- Includes Digital ID Hardware Engine for secure functions including match-on-device and OTP generation.
- Tacky footprint and 6' cable ideal for desktops.



Eikon To Go

- Same functionality as the Eikon in a portable form factor – protective cover slides open to reveal fingerprint sensor and USB plug (includes 6" connector cable for USB port configuration flexibility).
- Swipe sensor ideal for personal (single user) applications.
- Includes Digital ID Hardware Engine for secure functions including match-on-device and OTP generation.



Eikon Solo

- Intended for consumer, match-on-client applications
- Swipe sensor ideal for personal (single user) applications.
- Tacky footprint and 6' cable ideal for desktops

* Features vary depending on product.



Specifications

	EikonTouch 700 TCRF1CA4V6A0	EikonTouch 500 TCRF1SA3W6A0	EikonTouch 300 TCRF2SA3W6A0	Eikon TCRD4CA1H6A0	Eikon To Go TCRG4CA1T6A0	Eikon Solo TCRD5BA7K6A0
Compact Form Factor						
Fingerprint sensor	TCS1C (touch)	TCS1S (touch)	TCS2S (touch)	TCS4C (swipe)	TCS4C (swipe)	TCS5B (swipe)
Package size(mm)	84 x 33.8 x 14.3	84 x 33.8 x 14.3	84 x 33.8 x 14.3	84 x 33.8 x 14.3	70 x 23 x 9	84 x 33.8 x 14.3
Scanned area(mm)	12.8 x 18	12.8 x 18	10.4 x 14.4	9.6 x 25	9.6 x 25	7.2 x 25
Array size (pixels)	256 x 360	256 x 360	208 x 288	192 wide	192 wide	144 wide
Weight (g)	74	74	71	68	14	68
High Performance						
Acquisition speed	5.5 frames/sec	5.5 frames/sec	7.5 frames/sec	Up to 39 cm/sec	Up to 39 cm/sec	Up to 25 cm/sec
Image resolution	Up to 508 DPI			Up to 508 DPI		
Grayscale 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		N/A
On-board data storage	256 bytes for private data (optional)			Up to 15 templates and/or optional private data		N/A
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			No		
Operating temp.	0°C to +40°C			0°C to +40°C		
Protective coating	> 2 million touches	> 4 million touches	> 4 million touches	> 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		~20mA @ 5V
Power: Standby	~ 1 mA @ 5V			~ 1350 uA @ 5V		~400uA @ 5V
Integration Ease						
OS supported	Windows XP/Vista/7/CE			Windows XP/Vista/7/CE, Linux, Mac OS		Windows XP/Vista/7
Development Kits	PerfectPrint 9.0 or BSAPI 3.6 or greater.			Various SDK's including BSAPI 3.6 or greater		

Contact

Software Development Kits (SDKs)
www.upek.com/solutions/pc_and_networking/sdks

UPEK Partner Program
www.upek.com/partner/upek_partner_program.asp

To order:
www.upek.com/support/sales_and_distis

To contact UPEK sales:
 Contact sales@upek.com

UPEK, Inc.
 5900 Christie Ave.
 Emeryville, CA 94608 U.S.A.
 Tel: +1-510-420-2600
 Fax: +1-510-420-2699

www.upek.com
sales@upek.com

UPEK PTE LTD
 55 UBI Avenue 3
 #03-00 Mintwell Building
 Singapore 408864
 Tel: +65-6746-6323

Beijing
 +86-10-59231229
Prague
 +420-296-390-200
Taipei
 +866-223-460-866
Tokyo
 +81-3-3373-4381