HID®

OMNIKEY® 7121
USB Desktop Reader

USB SMART CARD AND BIOMETRIC READER

- **Increased Security** – Multi-factor authentication with smart card reader and fingerprint verification
- **Plug-and-Play** – Designed to facilitate easy device installation with high-quality drivers* for all major PC operating systems
- **Suits Any Application** – Compatible with virtually any smart card, various biometric algorithm vendors (e.g., Precise Biometrics, Siemens, Bromba) and major PC operating systems

The OMNIKEY® 7121 is a high-performance, USB smart card reader with biometric verification capability for desktop use that features a robust housing and a special standing base for optimal operation. Especially well-suited for logical access control systems with high security demands that require biometric two- or three-factor authentication, the OMNIKEY 7121 integrates seamlessly with the contact interface of any HID Crescendo™ card.

Biometric Match-on-Host solutions, where fingerprints are matched to a previously enrolled template by a trusted host application, are easily supported by the OMNIKEY 7121. In addition, using the contact interface together with a smart card enables

Match-on-Card solutions, matching and authenticating the swipe sensor fingerprint read with the template stored on the smart card, in a manner similar to a PIN number.

Compliant with all industry standards, this reader is compatible with virtually any contact smart card, operating system and a variety of applications. The OMNIKEY 7121 is easy to install and well-suited for all contact smart card operations, including single sign-on, Online banking or digital signature applications.

* For driver download, please visit www.omnikey.com.

SPECIFICATIONS

Base Model Number	OMNIKEY® 7121
Dimensions	3.74″ x 2.95″ x .1.38″ (95 x 75 x 35 mm)
Weight	Approx. 6.14 oz (174 g)
Power Supply	Bus powered
Operating Temperature	32–131 °F (0–55 °C)
Operating Humidity	10–90% rH
HOST INTERFACE	
Host Interface	USB 2.0 CCID[1] (also compliant with USB 1.1)
Transmission Speed	12 Mbps (USB 2.0 full speed)
SMART CARD INTERFACE	
Standards	ISO 7816 & EMV[2] 2000 Level 1
Protocols	T=0, T=1, 2-wire: SLE 4432/42 (S=10); 3-wire: SLE 4418/28 (S=9), I²C (S=8)
Card Size	ID-1 (full size)
Smart Card Interface speed	420 Kbps (when supported by card)
Smart Card Clock Frequency	Up to 8 MHz
Supported Card Types	5V, 3V and 1.8V Smart Cards, ISO 7816 Class A, B and C
Power to Smart Card	60 mA
Smart Card Detection	Movement detection with auto power-off / Automatic detection of smart card type/ Short circuit and thermal protection
8-Pin Handling	C4 / C8 supported
Fingerprint	Sensor type: Authentic RF field swipe sensor Stripe sensor resolution: 500 ppi Detection matrix: 192 x 16 pixels Sensor size: 0.38″ x 0.03″ (9.75 x 0.81 mm)
Supported APIs	PC / SC driver (ready for 2.01), CT-API (on top of PC / SC), Synchronous-API (on top of PC / SC), OCF (on top of PC / SC)
PC / SC Driver Support	Windows® 2000 / XP (32 bit), 2003 Server, 2008 Server, Windows® CE 5.0 / CE.NET / CE 6.0 (depending on hardware), Windows® XP (64 bit), Windows® Vista (32 bit / 64 bit), Windows 7 (32 bit / 64 bit), Linux® and Mac® OS X (Power PC / Intel)
Fingerprint Driver Support	Windows® 2000 / Windows® XP / Windows® Vista
Embedded Technology	OMNIKEY® Smart@Link Chipset
Status Indicator	Two dual-color LED
Color	Dark gray
Options	Customer-specific logo and colors: available upon request
Composition	ABS
Connector Cable	70.9″ (180 cm)
Durability	Smart card: 100,000 insertions Fingerprint: 10,000,000 rubs
Meantime Between Failure (MTBF)	500,000 hours
Compliance / Certification	Microsoft® WHQL[3], EMV[2] 2000 Level 1, ISO 7816, HBCI[4], USB 2.0 (USB 1.1 compatible), CCID[1]
Safety / Environmental	CE, FCC, UL, RoHS, WEEE
Warranty	Two-year manufacturer's warranty. (For drivers, see complete lifetime support policy.)

1 = Chip Card Interface Device, 2 = Europay® MasterCard® Visa®, 3 = Windows® Hardware Quality Lab , 4 = Home Banking Computer Interface

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