



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.

FEATURES:

- Meets major standards, including ISO 7816, EMV 2000, Microsoft WHQL, USB CCID, PC/SC and HBCI (Home Banking Computer Interface)
- Usage within an application is based on standardized interfaces like PC /SC, OCF (Open Card Framework) or CT-API
- USB CCID support makes integration into an existing system the easiest ever by connecting host and smart card reader without the need of additional drivers
- Supports high-speed data transmission
- Supports Match-on-Card (MoC) and Match-on-Host solutions (MoH)

SPECIFICATIONS

| | |
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| 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), I ² C (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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20110714-OK-7121-en-ds Rev. 07/2011