HID®

OMNIKEY® Smart@Link Reader Board USB

CONTACT INTERFACE SMART CARD READER BOARD

- **Plug and Play -** Designed to facilitate easy device installation with high quality drivers for all major PC operating systems
- **Readily Compliant -** Meets all relevant industry standards for smooth integration in PC environment
- **Suits Any Application -** Compatible with virtually any smart card and major PC operating systems
- **USB CCID support -** Makes integration into an existing system the simple by connecting host and smart card reader without the need of additional drivers

PRODUCT FEATURES:
- Driver identical to housed product
- All major operating systems supported
- Mounting bracket available
- PCB includes mounting holes
- Driver platform identical to Smart@Link
- Unbranded OEM driver available
- Available with design-in manual
- Prominent connector pins for all relevant board contacts

The OMNIKEY® 3121 is a high-performance, USB contact smart card reader board. Compliant with all industry standards, the reader is compatible with virtually any contact smart card, operating system and a variety of applications. The OMNIKEY 3121 is easy-to-install and well-suited for all contact smart card operations, including single sign-on, online-banking or digital signature applications.

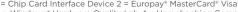For driver downloads please visit www.hidglobal.com/omnikey

Base Model Number	R31210041
Dimensions	3.0'' x 2.36'' x 0.47'' (75 x 60 x 12 mm)
Weight	2.65 oz / 75 g
Operating Temperature	32º - 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)
Power Supply	Bus powered
	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, AB 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
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), I2C (on top of PC/SC)
PC/SC Driver Support	Windows® XP/Vista/7/8 (32 bit / 64 bit) Windows Server 2003/2008 (32 bit / 64 bit), 2008R2 (64 bit) Windows CE 4.2/5/6/7 (depending on hardware) Linux®, Mac® OS X and Android™
Status Indicator	Green LED
Smart Card Interface	420 Kbps (when supported by card)
Options	**Mounting Bracket**: On Request
Connector Cable	180 cm / 70.9"
Durability	100,000 insertions
Meantime Between Failure (MTBF)	500,000 hours
Compliance / Certification	Microsoft® WHQL[3], EMV² 2000 Level 1, EMV² 2000 Level 1, ISO 7816, HBCI[4]
Safety / Environmental	WEEE, RoHS
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 = Homebanking Computer Interface

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