

## OMNIKEY® 5121 Reader Board USB



### A DUAL INTERFACE SMART CARD READER BOARD FOR OEMS

- **Quick & Easy Integration** - Unparalleled support and compatibility to ISO 14443 A/B and ISO 7816 standards
- **Versatile Applications** - Ideal device for both contactless and contact smart card technology environments
- **Fast and Secure Data Transmission** - Advanced design and features enable shorter card read time
- **Suits Any Application** - Compatible with virtually any smart card and major PC operating systems

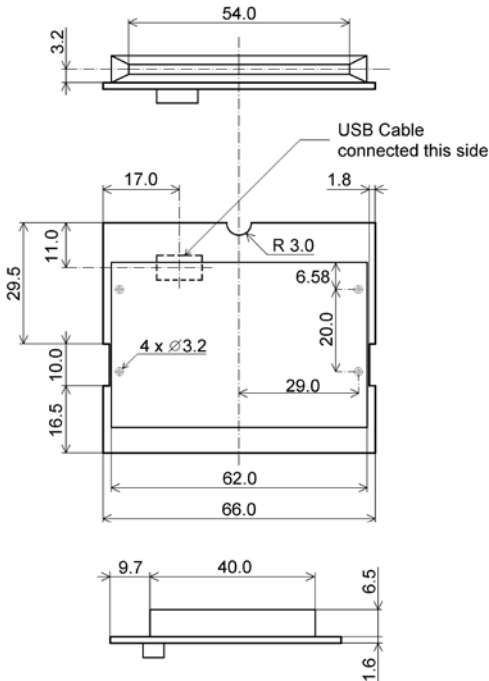
#### PRODUCT FEATURES:

- Supported cards include MIFARE®, MIFARE DESFire® iCLASS®
- Supports ISO 14443 A&B, ISO 15693 and ISO 7816
- Contact unit based on OMNIKEY® 3121
- Up to 424 Kbps transmission rate
- Mounting bracket available
- Small PCB

The OMNIKEY® 5121 Reader Board is a dual interface PC-linked reader that reads/writes to both a 13.56 MHz contactless smart card and virtually any contact smart card. The dual interface feature, implemented on a small PCB, economically supports end-user environments where both contactless and contact smart card technology may be in use. The reader supports contactless smart cards with up to 424 kbps in ISO 14443 transmission mode with its driver base identical to the OMNIKEY® 5321.

For driver downloads please visit [www.hidglobal.com/omnikey](http://www.hidglobal.com/omnikey)

## SPECIFICATIONS



Maximum component height is 3.6mm (USB connector)

USB Connector Size:  
11.0 x 5.0 mm

Holes not available if Contact Card Connector is mounted

Tolerances +/-0.2mm



<b>Base Model Number</b>	R51210049-2
<b>Dimensions</b>	2.6" x 2.16" x 0.43" (66 x 55 x 11mm)
<b>Weight</b>	Approx. 75 gr / 2.65 oz
<b>Power Supply</b>	Bus powered
<b>Operating Temperature</b>	0°-55°C (32-131°F)
<b>Operating Humidity</b>	10-90% rH
<b>HOST INTERFACE</b>	
<b>Host Interface</b>	USB 2.0 CCID <sup>1</sup> (also compliant with USB 1.1)
<b>Transmission Speed</b>	12 Mbps (USB 2.0 full speed)
<b>CONTACT SMART CARD INTERFACE</b>	
<b>Standards</b>	ISO 7816 & EMV <sup>2</sup> 2000 Level 1
<b>Protocols</b>	T=0, T=1, 2-wire: SLE 4432/42 (S=10), 3-wire: SLE 4418/28 (S=9), I <sup>2</sup> C (S=8)
<b>Card Size</b>	ID-1 (full-size)
<b>Smart Card Interface Speed</b>	420 kbps (when supported by card)
<b>Smart Card Clock Frequency</b>	Up to 8 MHz
<b>Supported Card Types</b>	5V, 3V and 1.8V Smart Cards, ISO 7816 Class A, AB and C
<b>Power to Smart Card</b>	60 mA
<b>Smart Card Detection</b>	Movement detection with auto power-off /Automatic detection of smart card type / Short circuit and thermal protection
<b>8 Pin Handling</b>	C4 / C8 supported
<b>Supported APIs</b>	PC/SC driver (ready for 2.01), CT-API (on top of PC/SC, for contact interface), OCF (on top of PC/SC, for contact interface), Synchronous API (on top of PC/SC)
<b>PC/SC Driver Support</b>	Windows <sup>®</sup> 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 <sup>®</sup> , Mac <sup>®</sup> OS X and Android™
<b>Status Indicator</b>	Two LED
<b>Contactless (RFID) Smart Card Interface</b>	ISO 14443 A with 424 Kbps transmission rate (depending on card) ISO 14443 B with 424 Kbps transmission rate (depending on card) ISO 15693 with 26 Kbps transmission rate (depending on card)
<b>Options</b>	Mounting Bracket: On Request
<b>Connector Cable</b>	180 cm / 70.9"
<b>Durability</b>	100,000 insertions
<b>Meantime Between Failure (MTBF)</b>	500,000 hours
<b>Compliance / Certification</b>	Microsoft <sup>®</sup> WHQL <sup>3</sup> , EMV <sup>2</sup> 2000 Level 1, ISO 7816, HBCI <sup>4</sup> , USB 2.0 (USB 1.1 compatible), CCID <sup>1</sup> (contact interface only)
<b>Safety / Environmental</b>	WEEE, RoHS
<b>Warranty</b>	Two year manufacturer's warranty. (For drivers, see complete lifetime support policy.)

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

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