OMNIKEY® 5122
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

The OMNIKEY 5122 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.

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

PRODUCT FEATURES:

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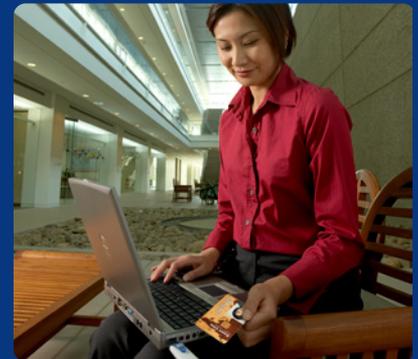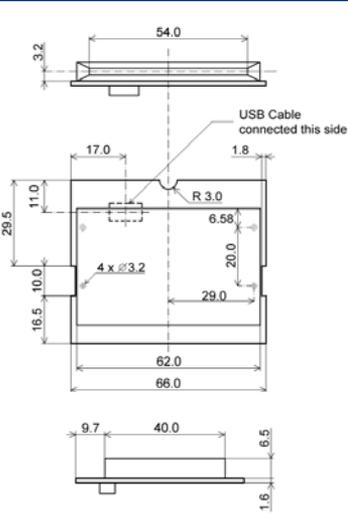
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SPECIFICATIONS

Base Model Number	OMNIKEY 5122
Dimensions	2.6" x 2.16" x 0.43" (66 x 55 x 11mm)
Weight	Approx. 75 gr / 2.65 oz
Power Supply	Bus powered
Operating Temperature	32-131 F (0-55°C)
Operating Humidity	10-95% rH (not condensing)
HOST INTERFACE	
USB Interface	USB 2.0 Full Speed Device (12 MBps) USB 3.0 extended operability, tested with hubs/controllers
Connector Cable	180 cm / 70.9"
Transmission Speed	12 Mbps (USB 2.0 full speed)
Driver	CCID native driver from operating system (Windows/Linux/Mac)
Supported API's	PC/SC - API
CONTACT SMART CARD INTERFACE	
Standards & Protocols	ISO7816 Class A/B/C T=0, T=1 S=8, S=9, S=10 (I²C, 2WBP, 3WBP)
Card Size	ID-1 (full-size)
Smart 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
HUMAN INTERFACE	
Status Indicator	Two LED
CONTACTLESS SMART CARD INTERFACE	
Contactless (RFID) Smart Card Interface	T=CL, MIFARE®, iCLASS® ISO 14443A/B - up to 848 kbps (depending on card) iCLASS 15693 up to 26kbps (depending on card)
Options	Mounting Bracket: On Request
COMPLIANCE AND REGULATORY	
Durability	100,000 insertions
Meantime Between Failure (MTBF)	500,000 hours
Compliance/Certification	USB 2.0, CE, UKCA
Safety/Environmental	WEEE, RoHS
Warranty	Two year manufacturer's warranty

For more information, [click here](#).