OMNIKEY Embedded Technology

ITG
ASSA ABLOY

OK OMNIKEY

OMNIKEY® 3121
Reader Board USB

ASSA ABLOY ITG, with its product brand OMNIKEY one of the world's leading manufacturers of innovative smart card readers, offers with the OMNIKEY® 3121 a high-performance smart card Reader Board. The OMNIKEY® 3121 is an easy-to-install USB device suited for OEMs to easily embed leading OMNIKEY technology.

Main Features:

- **Driver platform identical to housed product**
- **High speed data transmission**
- **All major operating systems supported**
- **Mounting bracket available**

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^2C (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

Other Features	
Status indicator	Dual color LED

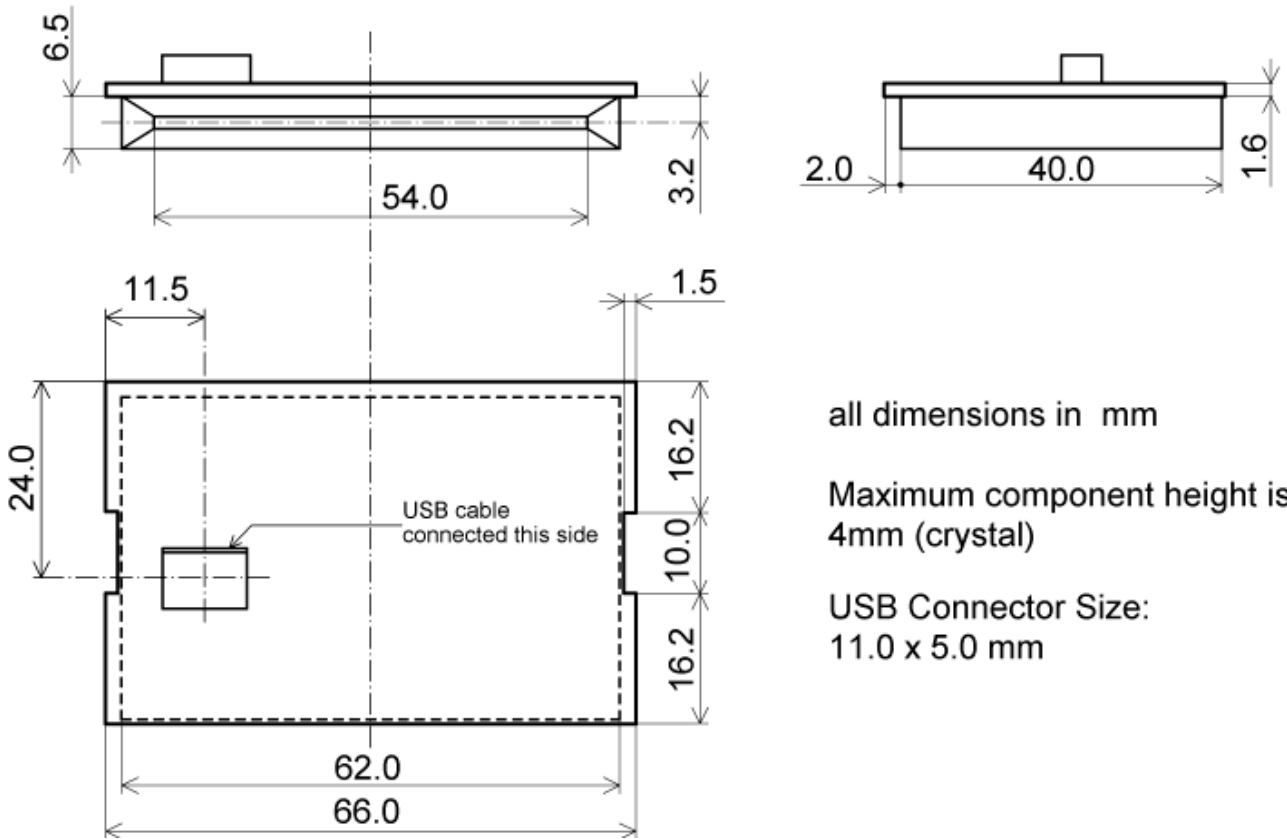| Options	
Mounting bracket	On request

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® 98 / ME, 2000 / XP (32bit), 2003 Server
Windows® CE 5.0 / CE.NET (depending on hardware)
Windows® XP 64bit (AMD64, EM64T, IA64)
Windows® Vista (32bit / 64bit)
Linux®
Mac® OS X (PowerPC / Intel)

Embedded Technology
CardMan Smart@Link Chipset

Hardware Specifications	
Dimensions (LxWxH)	66 x 42,4 x 12mm 2.6" x 1.67" x 0.47"
Weight (incl. cable)	Approx. 75 gr / 2.65 oz
Operating temperature	0°-55°C / 32-131°F
Operating humidity	10-90% rH
Connector cable	180 cm / 70.9"
Durability	100.000 insertions
Meantime between failure (MTBF)	500.000 hours

Compliance / Certification	Safety / Environmental
Microsoft® WHQL[3]	CE[5] / WEEE
EMV[2] 2000 Level 1	FCC[5]
ISO 7816	UL[5]
HBCI[4]	VCCI[5]
USB 2.0 (USB 1.1 compatible)	MIC[5]
CCID[1]	RoHS

1 = Chip Card Interface Device 2 = Europay® MasterCard® Visa® 3 = Windows® Hardware Quality Lab 4 = Homebanking Computer Interface 5 = In housed readers only

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OMNIKEY® 3121 Reader Board USB
Technical Drawing

all dimensions in mm

Maximum component height is 4mm (crystal)

USB Connector Size:
11.0 x 5.0 mm

HBCI KERNEL

Mac

Designed for
Microsoft®
Windows®XP,
Windows®XP
x64 Edition

Designed for
Microsoft®
Windows®XP
Windows®2000

Works with
Windows
Vista™

RoHS
COMPLIANT
2002/95/EC

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