

CardMan® 3821 USB

OMNIKEY, one of the world leading manufacturers of innovative smart card readers, offers with the CardMan® 3821 a high-performance PIN pad reader with display for desktop usage. The CardMan® 3821 is an easy-to-install USB device particularly suited for online-banking or digital signature applications.



High-Speed

Based on revolutionary chip technology, jointly developed with Atmel, the class 2 PIN pad device with display CardMan® 3821 supports reader-to-card data transmission rates of up to 420 KBits per second, exceeding the performance of other smart card readers.

Standards

Because the CardMan® 3821 complies with all relevant industry standards (ISO 7816, EMV [Europay, Mastercard, Visa] 2000, Microsoft® WHQL, USB CCID, PC/SC, HBCI [Home Banking Computer Interface, the PC-2001 Specification and many more] it is open for any smart card on any computer for any application.

The smart card reader is Common Criteria EAL 3+ certified.

Security-Features

The CardMan® 3821 has a display with two lines (2x16 characters) indicating the secure mode with a special sign. The commands for the Secure PIN Entry (SPE) can be given in five languages by default (English, French, German, Italian and Spanish). Other languages can easily be programmed.

The content on the smart card is protected by a PIN (Personal Identification Number) to prevent unauthorized copying or use of the information stored on the card. The sensible data is neither stored on the PC nor communicated via insecure PC/reader connection but remains within the card/reader environment.

Applications

Applications for the new desktop PIN pad reader with display include digital signature, secure online banking and other online transactions, loyalty programs, healthcare solutions and many more future applications.

The usage within an application is based on standardized interfaces like PC/SC (ready for 2.0), OCF (Open Card Framework) or CT-API.



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Host Interface

USB 2.0 CCID ¹ (also compliant with USB 1.1)	✓
Transmission speed	12 Mbps
Power supply	Bus powered

Smart Card Interface

Compliant with ISO 7816 and EMV ² 2000	✓
Supports T=0, T=1	✓
Supports 2-wire: SLE 4432/42 (S=10), 3-wire: SLE 4418/28 (S=9)	✓
Supports I ² C	✓
Card Size	ID-1 (full size)
High-performance smart card interface (up to 420 Kbps when supported by card)	✓
Smart card clock frequency up to 8 MHz	✓
Supports 5V, 3V, and 1.8V smart cards	✓
Supplies 60 mA current to power the smart card	✓
Smart card movement detection with auto power-off	✓
Automatic detection of smart card type	✓
Short circuit and thermal protection	✓

User Interface

PIN pad with 16 keys (4 x 4)	✓
2 x 16 character display	✓
Status indicator: Three symbols in display (ready/ card operation /secure mode)	✓

Options

Customer specific logo or label	✓
Customer specific colors	✓

Compliance/Certification

Microsoft WHQL ³ certified	✓
EMV ² 2000 Level 1 certified	✓
ISO 7816	✓
HBCI ⁴	✓
USB 2.0 (1.1 compatible)	✓
Common Criteria EAL 3+	Under evaluation

API

PC/SC driver (ready for 2.0)	✓
CT-API (on top of PC/SC)	✓
OCF (on top of (PC/SC))	✓

PC / SC Driver Support

Windows® 98	✓
Windows® ME	✓
Windows® 2000	✓
Windows® XP	✓
Linux®	✓

Embedded Technology

Please contact us for further details	✓
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Hardware Specifications

Colors	Two-tone Gray
Dimensions	80 x 14 x 50mm 3.15" x .55" x 1.96"
Weight	173 gr/6.1 ounces
Operating temperature	10-55°C/ 32-131°F
Operating humidity	10-90% rH
Composition	ABS
Connector cable	180-200cm/ 70.9"-78.8"
Durability	100,000 Insertions
Meantime between failure (MTBF)	500,000 Hours

1= Chip Card Interface Device 2= Europay® MasterCard® Visa® 3= Windows® Hardware Quality Lab 2= Homebanking Computer Interface



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