O·K OMNIKEY

We smart you up.

OMNIKEY
Smart Card Readers

- CardMan® 3111 Serial
- CardMan® 3121 USB
- CardMan® 4040 PCMCIA
- CardMan® 6121 Dongle

Based on New High Performance Chip Sets

Worldwide Certifications to All Applicable Standards

OMNIKEY's CardMan® Family of Smart Card Readers

OMNIKEY's CardMan® product family supports the use of smart cards for PC-based applications such as logical access control, digital signature, GSM authentication, PKI, secure banking and online transactions, loyalty programs, and healthcare solutions. Used with PCs, notebooks, servers, personal organizers, and set-top boxes, OMNIKEY offers a diversified product portfolio to meet various requirements. To see the complete product portfolio, visit our webpage or contact us directly (see back cover).

	CardMan 3111	CardMan 3121	CardMan 4040	CardMan 6121
Host Interface				
Serial (RS232, COM port)	✓			
USB 2.0 CCID[1] (also compliant with USB 1.1)		✓		✓
PCMCIA			✓	
Transmission speed	115 Kbps	12 Mbps (USB 2.0 full-speed)	16 Mbps	12 Mbps (USB 2.0 full-speed)
Power supply	PS/2 Keyboard adapter	Bus powered	PCMCIA slot	Bus powered
Smart Card Interface				
Compliant with ISO 7816 and EMV 2000 Level 1	✓	✓	✓	✓
Supports T=0, T=1	✓	✓	✓	✓
Supports 2-wire: SLE 4432/42, (S=10), 3-wire: SLE4418/28 (S=9)	✓	✓	✓	✓
Supports I²C (S=8)	✓	✓	✓	✓
Supports SLE 4404	✓	✓	✓	
Card size	ID – 1 (full size)			ID - 000 (SIM 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	✓	✓	✓	✓
8 pin handling (C4 / C8 supported)	✓	✓	✓	
Other Features				
Status indicator	Dual color LED			LED
Light vertical base and attachment pad for mounting the reader (i.e., on a monitor)	✓	✓		
Options				
Heavy base (300gr) or jumbo heavy base (429gr) supporting both horizontal and vertical card insertion	On request			
Customer specific logo and/or label	On request			
Customer specific colors	On request			

Based on revolutionary chip technology, jointly developed with Atmel, OMNIKEY's 3111, 3121, 4040 and 6121 readers support reader-to-card data transmission rates of up to 420 KBits per second, setting a performance standard in the market. OMNIKEY's readers, which work with virtually any contact smart card, are designed for maximum flexibility and interoperability and comply with all relevant industry standards. OMNIKEY offers free download of driver updates from the webpage at **www.omnikey.com**.

	CardMan 3111	CardMan 3121	CardMan 4040	CardMan 6121
Compliance				
Microsoft WHQL[2] certified	✓	✓	✓	✓
EMV[3] 2000 Level 1 certified	✓	✓	✓	✓
ISO 7816	✓	✓	✓	✓
HBCI[4]	✓	✓	✓	✓
USB 2.0 (1.1 compatible)		✓		✓
PCMCIA			✓	
API				
PC/SC driver	✓	✓	✓	✓
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	✓	✓	✓	✓
Windows® CE 3.0 / CE.NET (depending on hardware)	✓	✓	✓	✓
Windows® NT 4.0	✓		✓	
Linux®	✓	✓	✓	✓
Mac® OS X	✓	✓	✓	✓
Embedded Technology				
CardMan Smart@Link Chip-Set	✓	✓		✓
CardMan Smart@Bus Chip-Set			✓	
Hardware Specifications				
Colors	Two-Tone Gray (Standard)	Two-Tone Gray (Standard)	Silver	Gray-Blue
Dimensions	80 x 67 x 28 mm 3.15″ x 2.64″ x 1.1″	80 x 67 x 28 mm 3.15″ x 2.64″ x 1.1″	85 x 54 x 5 mm 3.35″ x 2.13″ x 0.2″	74 x 21 x 10 mm 2.43″ x 0.70″ x 0.3″
Weight (incl. standard base for CardMan 3111 & 3121)	187 gr 6.6 ounces	187 gr 6.6 ounces	60 gr 2.12 ounces	10 gr 0.35 ounces
Operating temperature	10-55° C / 32-131° F			
Operating humidity	10-90 % rH			
Composition	ABS	ABS	Stainless steel	PC-Lexan
Connector cable	180 cm 70.9″	180 cm 70.9″	No cable	No cable
Durability	100,000 Insertions			
Meantime between failure (MTBF)	500,000 Hours			
Safety and Environmental Standards				
CE	✓	✓	✓	✓
FCC	✓	✓	✓	✓
UL	✓	✓	✓	✓

1 = Chip Card Interface Device   2 = Windows® Hardware Quality Labs   3 = Europay® MasterCard® Visa®   4 = Homebanking Computer Interface

CardMan® 3111 and CardMan® 3121

- CardMan 3111: Serial smart card reader
- CardMan 3121: USB reader. Full-speed USB 2.0 CCID support for easy installation (plug and play)
- Fastest smart card reader on the market with up to 420 Kbps data transmission rate
- EMV 2000 Level 1 certified desktop reader
- Works with all major contact smart cards
- Specially designed housing for horizontal or vertical placement, adhesion to PC monitor, etc.
- Company logo or colorized snap-on cover are available on request

Mounting options of the CardMan 3111 and CardMan 3121

Mounting with heavy base

Adhesion with no base

CardMan® 4040

- Fastest PCMCIA smart card reader on the market with up to 420 Kbps data transmission rate
- EMV 2000 Level 1 certified mobile reader
- PC-card for mobile use in portable computers, notebooks, PDA's or set-top-boxes via PCMCIA slot
- Customized labels are an option

OMNIKEY
Smart Card Readers:

CardMan® 6121

- Fully functional smart card reader in dongle form for SIM sized smart cards
- High-speed data transmission rate of up to 420 Kbps to the card
- Portable mini reader for W-LAN authentication, PKI for mobile users, digital signature and many more smart card based applications
- Customized colors are an option

designed to support
any smart card
for **any application**
on **any computer**

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