

CardMan® 6121 Dongle

OMNIKEY, the world leading manufacturer of innovative smart card readers, has developed a new portable USB smart card reader. The CardMan® 6121 combines a fully functional smart card reader in a small form factor for mobile use.



High-Speed

Based on revolutionary chip technology, jointly developed with Atmel, the portable CardMan® 6121 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® 6121 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.

Applications

Applications for the new reader include download of GSM applications from the internet to the SIM card, logical access control, WLAN, PKI for mobile users, digital signature, secure mobile banking and online transactions, loyalty programs, healthcare solutions and many more future applications.

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

The 6121 is CCID-compliant and features a full-speed USB 2.0 interface. With CCID drivers becoming a standard feature of many operating systems, the 6121 can simply be plugged into a USB port and automatically be recognized by the system.



CardMan® 6121 Technical Specifications

CardMan® 6121

Host Interface	
USB 2.0 CCID (also compliant with USB 1.1)	✓
Transmission speed	12 Mbps
Power supply	Bus powered
Smart Card Interface	
Compliant with ISO 7816 and EMV 2000	✓
Supports T=0, T=1	✓
2-wire: SLE 4432/42 (S=10), 3-wire: SLE4418/28 (S=9),	✓
Supports I ² C (S=8)	✓
Supports SLE 4404	✓
Card 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	✓
Other Features	
LED status indicator	✓
Options	
Customer specific logo or label	✓
Customer specific colors	✓

Compliance	
Microsoft® WHQL certified	✓
EMV 2000 Level 1 certified	✓
ISO 7816	✓
HBCI	✓
USB 2.0 (1.1 compatible)	✓
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	✓
Embedded Technology	
CardMan® Smart@Link Chip set	✓
Hardware Specifications	
Colors	Grey- Blue
Dimensions	74x21x10mm
Weight	
Operating temperature	10-55°C
Operating humidity	10-90% rH
Composition	PC-Lexan
Durability	100.000 Insertions
Meantime between failure (MTBF)	500.000 Hours



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