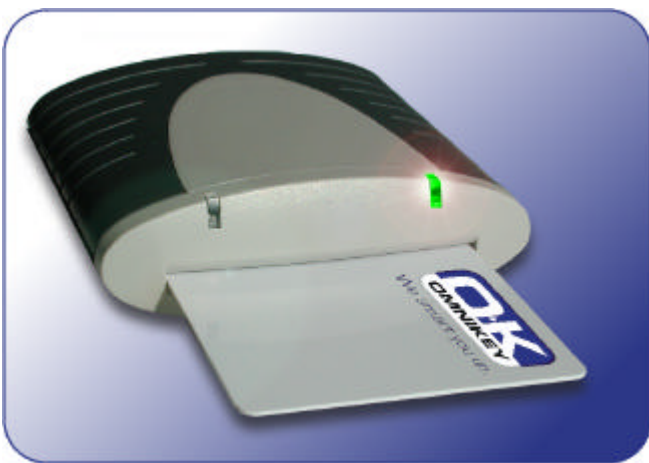


## CardMan® USB 3121

Smart Cards are increasingly being used for Payments, Home-Banking, Access Control, Internet Security, PKI-tokens, Healthcare, Loyalty, etc.

OMNIKEY's CardMan® product family facilitates the use of Smart Cards with PCs, Notebooks, Servers, Personal Organizers and Set-Top-Boxes.

CardMan® was the first Smart Card Reader worldwide to be certified by Microsoft with the "Designed for Microsoft Windows" logo.



vertical



Foot pack usage

horizontal

CardMan® 3121 is designed to meet all major standards like ISO 7816, EMV 3.1.1, Microsoft WHQL, USB CCID, PC/SC, HBCI (Home Banking Computer Interface), the PC-2001 Specification and many more.

The usage within an application is based on standardized interfaces like PC/SC, OCF (Open Card Framework) or CT-API. The USB CCID support makes the integration in an existing system the easiest ever by connecting host and Smart Card Reader without the need of additional drivers.

Following features make the CardMan® 3121 the perfect answer to the increasing demands of many applications:



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### Smart Card Interface

- Smart Card Interface compliant with ISO 7816 and EMV 3.1.1
- Support of T=0, T=1, I<sup>2</sup>C (S=8), 2-wire: SLE 4432/42 (S=10), 3-wire: SLE4418/28 (S=9), others on request
- Transmission speed with Smart Card up to 96 Kbaud
- Supports 5V, 3V and 1,8V Smart Cards
- 60 mA max to power the Smart Card
- Smart Card movement detection with auto power-off
- Automatic detection of Smart Card type
- Short circuit and thermal protection

### Host Interface

- USB (compliant with USB 1.1 and 2.0, CCID supported)
- Transmission speed: 12 MBit/sec
- Bus powered
- Cable length 180 cm

### Compliance

- WHQL (Microsoft) certified
- EMV 3.1.1 (Europay, Mastercard, Visa) certified
- USB 1.1 and 2.0
- USB CCID
- ISO 7816
- HBCI

### Other Features

- LED status indicator (Green: ready; Red: busy)
- Attachment pad for mounting the reader (e.g. on a monitor)

### PC/SC Driver support

- Windows 98
- Windows ME
- Windows 2000
- Windows XP
- others on request

### Options

- Foot pack for desktop usage supporting both vertical and horizontal card insertion

### OEM

- customer specific logo
- customer specific colors

### Embedded Technology

- CardMan 3e21 Chip-Set available with same technical features