



## OMNIKEY® 4321 Mobile ExpressCard™ 54



### MOBILE EXPRESSCARD™ READER

- **Plug-and-Play** – Designed to facilitate easy device installation with high-quality drivers\* for all major PC operating systems
- **Readily Compliant** – Meets all relevant industry standards for smooth integration in PC environment
- **Convenient and Reliable** – Robust metal housing with or without lip for your convenience
- **Suits Any Application** – Compatible with virtually any contact smart card and major PC operating systems

The OMNIKEY® 4321 is one of the first ExpressCard™ 54 smart card readers available on the market. The new interface standard, designed to enable smaller and faster PC card solutions for next generation PCs, is implemented in the latest laptops in addition to, or as a replacement for, traditional PCMCIA expansion slots.

Whatever the requirement of the mobile contact smart card-based security application, the high-speed ExpressCard™ reader can support it. The OMNIKEY® 4321 uses the USB 2.0 interface as defined by the ExpressCard™

standard for simple integration into laptops or PDA devices. Due to its small size, it is also ideal for mass distribution by mail, bundled in an envelope or small package together with accompanying smart cards and/or software. Available without lip to fit smoothly into the ExpressCard™ slot and with lip for easier insertion of the smart card.

\* For driver download, please visit [www.omnikey.com](http://www.omnikey.com).

## FEATURES:

- Compliant with all major standards, including ISO 7816, EMV (Europay<sup>®</sup>, Mastercard<sup>®</sup>, Visa<sup>®</sup>) 2000, Microsoft WHQL, PC / SC, HBCI (Home Banking Computer Interface) and PC-2001 Specification
- Standard application interfaces include PC / SC, Synchronous-API (on top of PC / SC), OCF (Open Card Framework) or CT-API
- Robust metal housing with lip for convenient card insertion
- Supports all major operating systems
- Meets GSA FIPS 201 requirements
- Reader can be customized with company logo or corporate colors
- Reader works with all laptops and PDAs utilizing the ExpressCard<sup>™</sup> 54 interface
- EMV-compliant mobile reader
- Provides the highest level of interoperability and stability

## SPECIFICATIONS



|                                        |                                                                                                                                                                                                                                                                                                           |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Base Model Number</b>               | OMNIKEY <sup>®</sup> 4321 V2                                                                                                                                                                                                                                                                              |
| <b>Dimensions</b>                      | 3.35" x 2.13" x 0.20" (75 x 54 x 5 mm)                                                                                                                                                                                                                                                                    |
| <b>Weight</b>                          | 0.91 oz (26 g)                                                                                                                                                                                                                                                                                            |
| <b>Power Supply</b>                    | Bus powered                                                                                                                                                                                                                                                                                               |
| <b>Operating Temperature</b>           | 32-131 °F (0-55 °C)                                                                                                                                                                                                                                                                                       |
| <b>Operating Humidity</b>              | 10-90% rH                                                                                                                                                                                                                                                                                                 |
| <b>HOST INTERFACE</b>                  |                                                                                                                                                                                                                                                                                                           |
| <b>Host Interface</b>                  | ExpressCard <sup>™</sup> 54 mm                                                                                                                                                                                                                                                                            |
| <b>Transmission Speed</b>              | 12 Mbps                                                                                                                                                                                                                                                                                                   |
| <b>SMART CARD INTERFACE</b>            |                                                                                                                                                                                                                                                                                                           |
| <b>Standards</b>                       | ISO 7816 & EMV <sup>2</sup> 2000 Level 1                                                                                                                                                                                                                                                                  |
| <b>Protocols</b>                       | T=0, T=1, 2-wire: SLE 4432/42 (S=10);<br>3-wire: SLE 4418/28 (S=9), I <sup>2</sup> C (S=8)                                                                                                                                                                                                                |
| <b>Card Size</b>                       | ID-1 (full size)                                                                                                                                                                                                                                                                                          |
| <b>Smart Card Interface Speed</b>      | 420 Kbps (when supported by card)                                                                                                                                                                                                                                                                         |
| <b>Smart Card Clock Frequency</b>      | Up to 8 MHz                                                                                                                                                                                                                                                                                               |
| <b>Supported Card Types</b>            | 5V, 3V and 1.8V Smart Cards, ISO 7816 Class A, B and C                                                                                                                                                                                                                                                    |
| <b>Power to Smart Card</b>             | 60 mA                                                                                                                                                                                                                                                                                                     |
| <b>Smart Card Detection</b>            | Movement detection with auto power-off / Automatic detection of smart card type / Short circuit and thermal protection                                                                                                                                                                                    |
| <b>8-Pin Handling</b>                  | C4 / C8 supported                                                                                                                                                                                                                                                                                         |
| <b>Supported APIs</b>                  | 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)                                                                                                                                                                                 |
| <b>PC / SC Driver Support</b>          | Windows <sup>®</sup> 2000 / XP (32 bit), 2003 Server, 2008 Server, Windows <sup>®</sup> CE 5.0 / CE.NET / CE 6.0 (depending on hardware), Windows <sup>®</sup> XP (64 bit), Windows <sup>®</sup> Vista (32 bit / 64 bit), Windows 7 (32 bit / 64 bit), Linux <sup>®</sup> and Mac OS X (Power PC / Intel) |
| <b>Embedded Technology</b>             | OMNIKEY <sup>®</sup> Smart@Link Chipset                                                                                                                                                                                                                                                                   |
| <b>Color</b>                           | Metallic                                                                                                                                                                                                                                                                                                  |
| <b>Options</b>                         | Customer-specific logo, label and colors: available upon request                                                                                                                                                                                                                                          |
| <b>Composition</b>                     | Alloy                                                                                                                                                                                                                                                                                                     |
| <b>Durability</b>                      | 30,000 insertions                                                                                                                                                                                                                                                                                         |
| <b>Meantime Between Failure (MTBF)</b> | 500,000 hours                                                                                                                                                                                                                                                                                             |
| <b>Compliance / Certification</b>      | Microsoft <sup>®</sup> WHQL <sup>3</sup> , EMV <sup>2</sup> 2000 Level 1, ISO 7816, HBCI <sup>4</sup> , USB 2.0 (USB 1.1 compatible), CCID <sup>1</sup> , GSA FIPS 201 approved product list                                                                                                              |
| <b>Safety / Environmental</b>          | CE, WEEE, FCC, UL, VCCI, MIC, RoHS                                                                                                                                                                                                                                                                        |
| <b>Warranty</b>                        | Two-year manufacturer's warranty.<br>(For drivers, see complete lifetime support policy.)                                                                                                                                                                                                                 |

I = Chip Card Interface Device, 2 = Europay<sup>®</sup> MasterCard<sup>®</sup> Visa<sup>®</sup>, 3 = Windows<sup>®</sup> Hardware Quality Lab, 4 = Homebanking Computer Interface

North America: +1 949 732 2000  
Toll Free: 1 800 237 7769  
Europe, Middle East, Africa: +49 6123 791 0  
Asia Pacific: +852 3160 9800  
Latin America: +52 477 779 1492

[hidglobal.com](http://hidglobal.com)

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