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

◗ **Suits Any Application** - Compatible with virtually any smart card and major PC operating systems

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ACCESS quality.

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.

◗ Compliant with all major standards, including ISO 7816, EMV (Europay®, Mastercard®, Visa®) 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™ 54 interface
◗ EMV-compliant mobile reader
◗ Provides the highest level of interoperability and stability

* For driver download, please visit www.omnikey.com.

Base Model Number	OMNIKEY® 4321 V2
Dimensions	3.00" x 2.13" x 0.20" / 75 x 54 x 5 mm
Weight	0.91 oz / 26 g
Power supply	Bus powered
Operating temperature	32°-131° F (0° - 55° C)
Operating humidity	10-90% rH
HOST INTERFACE	
Host Interface	ExpressCard™ 54 mm
Transmission speed	12 Mbps
SMART CARD INTERFACE	
Standards	ISO 7816 & EMV² 2000 Level 1
Protocols	T=0, T=1, 2-wire: SLE 4432/42 (S=10), 3-wire: SLE 4418/28 (S=9), I²C (S=8)
Card size	ID-1 (full-size)
Smart Card interface speed	420 kbps (when supported by card)
Smart Card clock frequency	Up to 8 MHz
Supported card types	5V, 3V and 1.8V Smart Cards, ISO 7816 Class A, B and C
Power to Smart Card	60 mA
Smart Card detection	Movement detection with auto power-off /Automatic detection of smart card type/ Short circuit and thermal protection
8 Pin Handling	C4 / C8 supported
Supported APIs	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)
PC/SC Driver Support	Windows® 2000 / XP (32bit), 2003 Server, 2008 Server, Windows® CE 5.0 / CE.NET / CE 6.0 (depending on hardware), Windows® XP 64bit, Windows® Vista (32bit / 64bit), Windows 7 (32bit / 64bit), Linux®, Mac® OS X (Power PC/Intel)
Embedded Technology	OMNIKEY® Smart@Link Chipset
Color	Metallic
Options	**Customer Specific Logo and Label:** Available upon request
Composition	Alloy
Durability	30,000 insertions
Meantime between failure (MTBF)	500,000 hours
Compliance / Certification	Microsoft® WHQL³, EMV² 2000 Level 1, ISO 7816, HBCI⁴, CCID¹, GSA FIPS 201 approved product list
Safety / Environmental	CE, WEEE, UL, FCC, VCCI, MIC
Warranty	Two year manufacturer's warranty. (For drivers, see complete lifetime support policy.)

1 = Chip Card Interface Device, 2 = Europay® MasterCard® Visa®, 3 = Windows® Hardware Quality Lab, 4 = Home Banking Computer Interface

ACCESS experience.

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