





PORTABLE SMART CARD 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
- Portable Form Factor Unique size makes it an ideal reader for large-scale deployments and mass distribution
- Suits Any Application Compatible with virtually any smart card and major PC operating system

The OMNIKEY® 3021 is a high-performance, USB smart card reader that features all the trusted performance of OMNIKEY readers in a new and smaller form factor. Compliant with all industry standards, this reader is compatible with virtually any contact smart card, operating system and a variety of applications. This handy USB reader is the ideal choice for

large-scale deployments with any type of contact smart card or application software.

The 3021 can be easily distributed together with any smart card, including credit cards, e-ID cards or software for other applications.

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



FEATURES:

- Meets major standards, including ISO 7816, EMV 2000, Microsoft WHQL, USB CCID, PC / SC, HBCI (Home Banking Computer Interface) and PC-2001 Specification
- Usage within an application is based on standardized interfaces like PC / SC, OCF (Open Card Framework) or CT-API
- USB CCID support makes integration into an existing system the easiest ever by connecting host and smart card reader without the need for additional drivers
- Attractive, small size fits in an envelope to distribute with smart card, credit card, e-ID card or software for online banking or digital signature applications
- All major operating systems supported
- Meets GSA FIPS 201 requirements
- Supports high-speed data transmission















SPECIFICATIONS

Dimensions 2.91" x 2.52" x 0.51" (74 x 64 x 13 mm)		
Power Supply Bus powered	Base Model Number	OMNIKEY* 3021
Power Supply Operating Temperature Operating Humidity HOST INTERFACE Host Interface USB 2.0 CCID' (also compliant with USB 1.1) Transmission Speed SMART CARD INTERFACE Standards Standards Fro, Tell, 2-wire: SLE 4432/42 (S=10); 3-wire: SLE 4418/28 (S=9), PC (S=8) Card Size Smart Card Interface Speed Smart Card Interface Speed Smart Card Clock Frequency Supported Card Types Power to Smart Card Smart Card Detection B-Pin Handling Supported APIs Supported APIs PC / SC driver (ready for 2.01), CT-API (on top of PC / SC). Synchronous-API (on top of Server, Windows' SC 5.0 / CE.NET / CE 6.0 (depending on hardware). Windows' St (32 bit / 64 bit), Windows' 7 (32 bit), Linux', Mac' OS X (Power PC / Intel) Composition Composition Composition Composition Composition Microsoft' WHQL³, EMPX² 2000 Level 1, ISO 7816, HBCl⁴, USB 2.0 (USB 1.1 compatible), CCIDI, SA FIPS201 approved product list CE, WEEE, FCC, UL, VCCI, MIC, ROHS Two-year manufacturer's warranty,	Dimensions	2.91" x 2.52" x 0.51" (74 x 64 x 13 mm)
Operating Temperature Operating Humidity 10–90% rH HOST INTERFACE Host Interface USB 2.0 CCID¹ (also compliant with USB 1.1) Transmission Speed 12 Mbps (USB 2.0 full speed) SMART CARD INTERFACE Standards ISO 7816 & EMV² 2000 Level 1 Protocols Card Size ID-1 (full size) Smart Card Interface Speed Smart Card Interface Speed Smart Card Clock Frequency Supported Card Types Opwer to Smart Card Smart Card Detection 8-Pin Handling Supported APIs Supported APIs Supported APIs PC / SC Driver Support Embedded Technology Status Indicator Options Composition Composition Composition Composition Composition Microsoft' WHQL³, EMV² 2000 Level 1, ISO 7816, HBCl⁴, USB 2.0 (USB 1.1 compatible), CCID1, GSA FileS201 approved product list Ce, WEEE, FCC, UL, VCCI, MIC, Rolhs Ce, WEEE, FCC, UL, VCCI, MIC, Rolhs Ce, WEEE, FCC, UL, VCCI, MIC, Rolhs Ce, WEEE, FCC, UL, VCCI, MIC, Rolhs Ce, WEEE, FCC, UL, VCCI, MIC, Rolhs Composition Cemplace, Certification Cemplace, Cemplace	Weight	1.69 oz (48 g)
Operating Humidity HOST INTERFACE Host Interface USB 2.0 CCID¹ (also compliant with USB 1.1) Transmission Speed 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) 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 Power to 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 Supported APIs PC / SC driver (ready for 2.01), C7-API (on top of PC / SC), Synchronous-API (on top of PC / SC) Windows & Android, Windows 2000 / XP (32 bit), 2003 Server, 2008 Server, Windows XP (64 bit), Windows Vista (32 bit / 64 bit), Windows Y (33 bit / 64 bit), Windows Y (34 bit), EED Color Transparent / Silver Options Customer-specific logo, label and colors: available upon request Composition Polycarbonate Connector Cable Spil" (150 cm) Durability 100,000 insertions Meantime Between Failure (MTBF) Compliance / Certification Microsoft' WHQL³, EMV² 2000 Level 1, ISO 7816, HBCl⁴, USB 2.0 (USB 1.1 compatible), CCIDI, GSA FIPS201 approved product list Two-year manufacturer's warranty.	Power Supply	Bus powered
Host Interface Host Interface USB 2.0 CCID¹ (also compliant with USB 1.1) Transmission Speed 12 Mbps (USB 2.0 full speed) 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 Supported Card Types Power to Smart Card Smart Card Detection Smart Card Detection 8-Pin Handling Ca / C8 supported Supported APIs 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), Synchronous-API (on top of PC / SC), OCF (on top of PC / SC) Windows & Android, Windows 2000 / XP (32 bit), 2003 Server, 2008 Server, Windows XP (64 bit), Windows Vista (32 bit / 64 bit), Windows XP (64 bit), Windows Vista (32 bit / 64 bit), Windows XP (64 bit), Linux', Mac' OS X (Power PC / Intel) Color Transparent / Silver Options Customer-specific logo, label and colors: available upon request Composition Polycarbonate Connector Cable Sp.1" (150 cm) Durability Meantime Between Failure (MTBF) Compliance / Certification Microsoft' WHQL³, EMV² 2000 Level 1, ISO 7816, HBCl⁴, USB 2.0 (USB 1.1 compatible), CCID1, GSA FIPS201 approved tist Two-year manufacturer's warranty.	Operating Temperature	32-131 °F (0-55 °C)
Host Interface Transmission Speed 12 Mbps (USB 2.0 full speed) 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 Smart Card Interface Speed 420 Kbps (when supported by card) Smart Card Clock Frequency Supported Card Types Power to Smart Card Smart Card Detection 8-Pin Handling C4 / C8 supported Supported APIs Supported APIs 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) Windows 8, Android, Windows 2000 / XP (32 bit), 2003 Server, 2008 Server, Windows XP (64 bit), Windows Vista (32 bit / 64 bit), Windows 7 (32 bit / 64 bit), Linux', Mac' OS X (Power PC / Intel) Embedded Technology Options Customer-specific logo, label and colors: available upon request Composition Connector Cable Durability Meantime Between Failure (MTBF) Compliance / Certification Microsoft' WHQL³, EMV² Two-year manufacturer's warranty.	Operating Humidity	10-90% rH
Transmission Speed SMART CARD INTERFACE Standards ISO 78I6 & 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) ID-1 (full size) Smart Card Interface Speed 420 Kbps (when supported by card) Smart Card Clock Frequency Supported Card Types Fower to Smart Card Smart Card Detection 8-Pin Handling Supported APIs Supported APIs PC / SC driver (ready for 2.01), CT-API (on top of PC / SC), Synchronous-API (on top of PC / SC). Synchronous-API (on top of PC / SC). OCF (on top of PC / SC). Windows X, P (64 bit), Windows' Vista (32 bit / 64 bit), Windows Y, Vista (32 bit / 64 b		HOST INTERFACE
Standards 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) Up to 8 MHz Supported Card Types Swart Card Dotection 8-Pin Handling Supported APIs Supported APIs PC / SC Driver Support For / SC Driver Support Status Indicator Color Composition Connector Cable Durability Microsoft' WHQL³, EMV² 2000 Level 1 Durability Microsoft' WHQL³, EMV² 2000 Level 1 ISO 7816 & EMV² 2000 Level 1 R2000 Le	Host Interface	USB 2.0 CCID ¹ (also compliant with USB 1.1)
Standards ISO 7816 & EMV² 2000 Level 1	Transmission Speed	12 Mbps (USB 2.0 full speed)
Protocols T=0, T=1, 2-wire: SLE 4432/42 (S=10); 3-wire: SLE 4418/28 (S=9), ²C (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 8-Pin Handling C4 / C8 supported Supported APIs Supported APIs Supported APIs PC / SC driver (ready for 2.01), CT-API (on top of PC / SC), Synchronous-API (on top of PC / SC) (OF (on top of PC / SC)) Windows 8, Android, Windows' 2000 / XP (32 bit), 2003 Server, 2008 Server, Windows' XP (64 bit), Windows' Vista (32 bit / 64 bit), Windows 7 (32 bit / 64 bit), Linux, Mac OS X (Power PC / Intel) Embedded Technology Status Indicator Options Customer-specific logo, label and colors: available upon request Composition Polycarbonate Connector Cable 59.1" (150 cm) Durability Meantime Between Failure (MTBF) Compliance / Certification Microsoft' WHQL ³ , EMV ² 2000 Level 1, ISO 7816, HBCl ⁴ , USB 2.0 (USB 1.1 compatible), CCID1, GSA FIPS201 approved product list Two-year manufacturer's warranty.		SMART CARD INTERFACE
Card Size Smart Card Interface Speed Smart Card Clock Frequency Supported Card Types Power to Smart Card Detection 8-Pin Handling Supported APIs PC / SC Driver Support Embedded Technology Status Indicator Color Color Connector Cable Composition Composition Meantime Between Failure (MTBF) Smart Card Size Synond 1.8V Smart Cards, ISO 7816 Class A, B and C 60 mA Movement detection with auto power-off / Automatic detection of smart card type / Short circuit and thermal protection 60 mA Movement detection with auto power-off / Automatic detection of smart card type / Short circuit and thermal protection 8-Pin Handling C4 / C8 supported 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) Synchronous-API (on top of PC / SC), OCF (on top of PC / SC) Windows 8, Android, Windows' 2000 / XP (32 bit), 2003 Server, 2008 Server, Windows' CE 5.0 / CE.NET / CE 6.0 (depending on hardware), Windows' XP (64 bit), Windows' Vista (32 bit / 64 bit), Windows 7 (32 bit / 64 bit), Linux, Mac OS X (Power PC / Intel) OMNIKEY' Smart@Link Chipset Blue LED Color Transparent / Silver Options Customer-specific logo, label and colors: available upon request Polycarbonate Connector Cable 59:1" (150 cm) Meantime Between Failure (MTBF) Compliance / Certification Microsoft' WHQL ³ , EMV ² 2000 Level 1, ISO 7816, HBCl ⁴ , USB 2.0 (USB 1.1 compatible), CCID1, GSA FIPS201 approved product list CE, WEEE, FCC, UL, VCCI, MIC, RoHS Two-year manufacturer's warranty,	Standards	ISO 7816 & EMV ² 2000 Level 1
Smart Card Interface Speed Smart Card Clock Frequency Supported Card Types Power to Smart Card Smart Card Detection 8-Pin Handling Supported APIs PC / SC Driver Support Embedded Technology Status Indicator Coopsition Connector Cable Composition Compoliance / Certification Microsoft' WHQL ³ , EMV ² 2000 Level 1, ISO 7816, HBCl ⁴ , USB 2.0 (USB 1.1 compatible), CCIDI, SSA FIPS201 approved product list CE, WEEE, FCC, UL, VCCI, MIC, RoHS Two-year manufacturer's warranty,	Protocols	T=0, T=1, 2-wire: SLE 4432/42 (S=10); 3-wire: SLE 4418/28 (S=9), I ² C (S=8)
Smart Card Clock Frequency Supported Card Types 5V, 3V and 1.8V Smart Cards, ISO 7816 Class A, B and C 60 mA 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) Windows 8, Android, Windows* 2000 / XP (32 bit), 2003 Server, 2008 Server, Windows* XP (64 bit), Windows* Vista (32 bit / 64 bit), Windows 7 (32 bit / 64 bit), Linux, Mac' OS X (Power PC / Intel) Embedded Technology Status Indicator Blue LED Color Transparent / Silver Options Customer-specific logo, label and colors: available upon request Composition Polycarbonate Connector Cable 59.1" (150 cm) Durability 100,000 insertions Meantime Between Failure (MTBF) Compliance / Certification Microsoft* WHQL³, EMV² 2000 Level 1, ISO 7816, HBCl⁴, USB 2.0 (USB 1.1 compatible), CCID1, GSA FIPS201 approved product list CE, WEEE, FCC, UL, VCCI, MIC, RoHS Two-year manufacturer's warranty.	Card Size	ID-1 (full size)
Supported Card Types Power to Smart Card Brant Card Detection Smart Card Detection B-Pin Handling Supported APIs PC / SC Driver Support Embedded Technology Status Indicator Color Composition Composition Compoliance / Certification Compliance / Certification Supported Card Types Supported Card Types Supported APIs 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) Windows 8, Android, Windows' 2000 / XP (32 bit), 2003 Server, 2008 Server, Windows' XP (64 bit), Wind	Smart Card Interface Speed	420 Kbps (when supported by card)
Power to Smart Card Smart Card Smart Card Detection Movement detection with auto power-off / Automatic detection of smart card type / Short circuit and thermal protection C4 / C8 supported	Smart Card Clock Frequency	Up to 8 MHz
Movement detection with auto power-off / Automatic detection of smart card type / Short circuit and thermal protection	Supported Card Types	5V, 3V and 1.8V Smart Cards, ISO 7816 Class A, B and C
Smart Card Detection Of smart card type / Short circuit and thermal protection	Power to Smart Card	
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) Windows 8, Android, Windows* 2000 / XP (32 bit), 2003 Server, 2008 Server, Windows* CE 5.0 / CE.NET / CE 6.0 (depending on hardware), Windows* XP (64 bit), Windows* Vista (32 bit / 64 bit), Windows 7 (32 bit / 64 bit), Linux*, Mac* OS X (Power PC / Intel) Embedded Technology OMNIKEY* Smart@Link Chipset Blue LED Color Transparent / Silver Options Customer-specific logo, label and colors: available upon request Composition Polycarbonate Connector Cable 59.1" (150 cm) Durability Meantime Between Failure (MTBF) Compliance / Certification Microsoft* WHQL³, EMV² 2000 Level 1, ISO 7816, HBCl⁴, USB 2.0 (USB 1.1 compatible), CCID1, GSA FIPS201 approved product list Safety / Environmental CE, WEEE, FCC, UL, VCCI, MIC, RoHS Two-year manufacturer's warranty.	Smart Card Detection	
Synchronous-API (on top of PC / SC), OCF (on top of PC / SC) Windows 8, Android, Windows* 2000 / XP (32 bit), 2003 Server, 2008 Server, Windows* XP (64 bit), Windows* Vista (32 bit / 64 bit), Windows 7 (32 bit / 64 bit), Linux*, Mac* OS X (Power PC / Intel) Embedded Technology Status Indicator Color Color Transparent / Silver Options Customer-specific logo, label and colors: available upon request Composition Polycarbonate Connector Cable 59:1" (150 cm) Durability Meantime Between Failure (MTBF) Compliance / Certification Microsoft* WHQL³, EMV² 2000 Level 1, ISO 7816, HBCl⁴, USB 2.0 (USB 1.1 compatible), CCID1, GSA FIPS201 approved product list CE, WEEE, FCC, UL, VCCI, MIC, RoHS Two-year manufacturer's warranty.	8-Pin Handling	C4 / C8 supported
Server, Windows* CE 5.0 / CE.NET / CE 6.0 (depending on hardware), Windows* XP (64 bit), Windows* Vista (32 bit / 64 bit), Windows 7 (32 bit / 64 bit), Linux*, Mac* OS X (Power PC / Intel) Embedded Technology	Supported APIs	
Status Indicator Blue LED	PC / SC Driver Support	Server, Windows' CE 5.0 / CE.NET / CE 6.0 (depending on hardware), Windows' XP (64 bit), Windows' Vista (32 bit / 64 bit), Windows 7
Color Transparent / Silver Options Customer-specific logo, label and colors: available upon request Composition Polycarbonate Connector Cable 59.1" (150 cm) Durability 100,000 insertions Meantime Between Failure (MTBF) Compliance / Certification Microsoft" WHQL³, EMV² 2000 Level 1, ISO 7816, HBCl⁴, USB 2.0 (USB 1.1 compatible), CCID1, GSA FIPS201 approved product list Safety / Environmental CE, WEEE, FCC, UL, VCCI, MIC, RoHS Two-year manufacturer's warranty.	Embedded Technology	OMNIKEY® Smart@Link Chipset
Options Customer-specific logo, label and colors: available upon request Composition Polycarbonate Connector Cable 59.1" (150 cm) Durability 100,000 insertions Meantime Between Failure (MTBF) Compliance / Certification Microsoft" WHQL ³ , EMV ² 2000 Level 1, ISO 7816, HBCl ⁴ , USB 2.0 (USB 1.1 compatible), CCID1, GSA FIPS201 approved product list Safety / Environmental CE, WEEE, FCC, UL, VCCI, MIC, RoHS Two-year manufacturer's warranty.	Status Indicator	Blue LED
Composition Connector Cable S9.1" (150 cm) Durability 100,000 insertions Meantime Between Failure (MTBF) Compliance / Certification Microsoft' WHQL ³ , EMV ² 2000 Level 1, ISO 7816, HBCl ⁴ , USB 2.0 (USB 1.1 compatible), CCID1, GSA FIPS201 approved product list Safety / Environmental CE, WEEE, FCC, UL, VCCI, MIC, RoHS Two-year manufacturer's warranty.	Color	Transparent / Silver
Connector Cable 59.1" (150 cm) Durability 100,000 insertions Meantime Between Failure (MTBF) Compliance / Certification Microsoft' WHQL ³ , EMV ² 2000 Level 1, ISO 7816, HBCl ⁴ , USB 2.0 (USB 1.1 compatible), CCID1, GSA FIPS201 approved product list Safety / Environmental CE, WEEE, FCC, UL, VCCI, MIC, RoHS Two-year manufacturer's warranty.	Options	Customer-specific logo, label and colors: available upon request
Durability Meantime Between Failure (MTBF) Compliance / Certification Safety / Environmental Microsoft' WHQL³, EMV² 2000 Level 1, ISO 7816, HBCl⁴, USB 2.0 (USB 1.1 compatible), CCID1, GSA FIPS201 approved product list CE, WEEE, FCC, UL, VCCI, MIC, RoHS Two-year manufacturer's warranty.	Composition	Polycarbonate
Meantime Between Failure (MTBF) 500,000 hours	Connector Cable	59.1" (150 cm)
Solution	Durability	100,000 insertions
Compliance / Certification (USB 1.1 compatible), CCID1, GSA FIPS201 approved product list Safety / Environmental CE, WEEE, FCC, UL, VCCI, MIC, ROHS Two-year manufacturer's warranty.		500,000 hours
Two-year manufacturer's warranty.	Compliance / Certification	
	Safety / Environmental	CE, WEEE, FCC, UL, VCCI, MIC, RoHS
	Warranty	

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

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