





## **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)   |                            |   |
|--|----------------------------|---|
| Neight   Roy or (48 g)   | Base Model Number          | OMNIKEY* 3021   |
| Power Supply Operating Temperature 32-131 °F (0-55 °C) Operating Humidity HOST INTERFACE  Host Interface USB 2.0 CCID' (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), PC (S=8) Card Size Smart Card Interface Speed 420 Kbps (when supported by card) Smart Card Clock Frequency Up to 8 MHz Supported Card Types SV, 3V and 1.8V Smart Cards, ISO 7816 Class A, B and C Power to Smart Card Smart Card Detection 8-Pin Handling Cy / C8 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). Synchronous-API (on thindows '2000 / XP (32 bit), 2003 Server, 2008 Server, Windows 'CE 5.0 / CE.NET / CE 6.0 (depending on hardware). Windows' St (64 bit), Windows' Y (32 bit), 2003 Server, 2008 Server, Windows' CE 5.0 / CE.NET / CE 6.0 (depending on hardware). Windows' CE 5.0 / CE.NET / CE 6.0 (depending on hardware). Windows' CE 5.0 / CE.NET / CE 6.0 (depending on hardware). Windows' CE 5.0 / CE.NET / CE 6.0 (depending on hardware). Windows' CE 5.0 / CE.NET / CE 6.0 (depending on hardware). Windows' CE 5.0 / CE.NET / CE 6.0 (depending on hardware). Windows' CE 5.0 / CE.NET / CE 6.0 (depending on hardware). Windows' CE 5.0 / CE.NET / CE 6.0 (depending on hardware). Windows' CE 5.0 / CE.NET / CE 6.0 (depending on hardware). Windows' CE 5.0 / CE.NET / CE 6.0 (depending on hardware). Windows' CE 5.0 / CE.NET / CE 6.0 (depending on hardware). Windows' CE 5.0 / CE.NET / CE 6.0 (depending on hardware). Windows' CE 5.0 / CE.NET / CE 6.0 (depending on hardware). Windows' CE 5.0 / CE.NET / CE 6.0 (depending on hardware). Windows' CE 5.0 / CE.NET / CE 6.0 (depending on hardware). Windows' CE 5.0 / CE.NET / CE 6.0 (depending on hardware). Windows' CE 5.0 / CE.NET / CE 6.0 (depending on hardware). Windows' CE 5.0 / CE.NE | 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 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 Size Smart Card Interface Speed 420 Kbps (when supported by card) Up to 8 MHz Supported Card Types Power to Smart Card Smart Card Detection B-Pin Handling Supported APIs Supported APIs PC / SC Driver Support PC / SC Driver Support Embedded Technology Status Indicator Options Conposition Connector Cable Durability Meantine Between Failure (MTBF) Compliance / Certification Microsoft: WHQL³, EMV² 2000 Level 1, ISO 7816, HBCI², USB 2.0 (USB 1.1 compatible), CCID1, GSA EIPS201 approved product list Two-year manufacturer's warranty.  | Weight                     | 1.69 oz (48 g)  |
| Departing Humidity   | 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)  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)  Supported Card Types Power to Smart Card Smart Card Detection 8-Pin Handling C4 / C8 supported  Supported APIs PC / SC Driver Support  PC / SC Driver Support  Embedded Technology Status Indicator Color Color Connector Cable Durability Meantine Between Failure (MTBF)  Compliance / Certification  Microsoft* WHQL³, EMV² 2000 Level 1, ISO 7816, HBCI², USB 2.0 (USB 1.1 compeatible), CCID1, GSA FIPSC21 approved product list Two-year manufacturer's warranty.  | Operating Temperature      | 32-131 °F (0-55 °C)   |
| Host Interface Transmission Speed Transmission Speed  12 Mbps (USB 2.0 full speed)  SMART CARD INTERFACE  Standards STAND INTERFACE  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 Sv, 3V and 1.8V Smart Cards, ISO 7816 Class A, B and C 60 mA  Smart Card Detection 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 'X (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 Sp.1" (150 cm) Durability 100,000 insertions Meantime Between Failure (MTBF) Compliance / Certification  Microsoft' WHQL³, EMY.  Two-year manufacturer's warranty.  | Operating Humidity         | 10-90% rH   |
| Transmission Speed  12 Mbps (USB 2.0 full speed)  SMART CARD INTERFACE  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  Supported Card Types  Supported Card Types  Swart Card Detection  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' Yista (32 bit / 64 bit), Windows' XP (64 bit), Windows' XP ( |                            | 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  Supported Card Types  Swart Card Detection  8-Pin Handling  C4 / C8 supported  Supported APIs  PC / SC Driver Support  Windows 8, Android, Windows 2000 / XP (32 bit), 2003 Server, 2008  Server, Windows' CF 5.0 / CE NET / CE 6.0 (depending on hardware), Windows' XP (64 bit), Windows' Nista (32 bit / 64 bit), Windows 7 (32 bit / 64 bit), Windows 7 (32 bit / 64 bit), Windows 1 (2000 Kpset)  Conposition  Connector Cable  Durability  Meantime Between  Failure (MTBF)  Composart Card Size Manaura (Safety / Environmental)  CE, WEEE, FCC, UL, VCCI, MIC, RoHS  Two-year manufacturer's warranty.   | Host Interface             | USB 2.0 CCID <sup>1</sup> (also compliant with USB 1.1)   |
| 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  Power to Smart Card  Smart Card Detection  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) (of 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)  Cell Card Size  FC, WEER, FCC, UL, VCCI, MIC, RoHS  Two-year manufacturer's warranty.   | Transmission Speed         | 12 Mbps (USB 2.0 full speed)  |
| Protocols Card Size ID-1 (full size)  Smart Card Interface Speed Smart Card Clock Frequency Up to 8 MHz Supported Card Types Swart Card Detection 8-Pin Handling Supported APIs Supported APIs PC / SC Driver Support  Embedded Technology Status Indicator Color  |                            | SMART CARD INTERFACE  |
| Card Size Smart Card Interface Speed Smart Card Clock Frequency Supported Card Types Supported Card Types Power to Smart Card Smart Card Detection S-Pin Handling Supported APIs PC / SC Driver Support  Embedded Technology Status Indicator Color Color Color Composition Compliance / Certiffication Drashilty Meantime Between Faillure (MTBF) Smart Card Size Syn 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 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)  Options Color Transparent / Silver  Composition Polycarbonate  Connector Cable S9.1" (150 cm)  Durability Meantime Between Failure (MTBF)  Microsoft' WHQL <sup>3</sup> , EMV <sup>2</sup> 2000 Level 1, ISO 7816, HBCl <sup>4</sup> , 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 <sup>2</sup> 2000 Level 1  |
| Smart Card Interface Speed  Smart Card Clock Frequency  Supported Card Types  From to Smart Card  Smart Card Detection  Supported APIs  Supported APIs  PC / SC Driver Support  Embedded Technology  Status Indicator  Color  Color  Color  Color  Color  Conposition  Compliance / Certiffication  Movement detection with auto power-off / Automatic detection of smart card type / Short circuit and thermal protection  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)  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), Linux', Mac' OS X (Power PC / Intel)  Embedded Technology  OMNIKEY' Smart@Link Chipset  Blue LED  Color  Color | Protocols                  | T=0, T=1, 2-wire: SLE 4432/42 (S=10); 3-wire: SLE 4418/28 (S=9), I <sup>2</sup> C (S=8)   |
| Smart Card Clock Frequency 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 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' VS (64 bit), Windows' XP (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 Connector Cable Durability Meantime Between Failure (MTBF) Compliance / Certification  Safety / Environmental  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 (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' XP (64 bit), Linux', Mac' OS X (Power PC / Intel)  Embedded Technology Status Indicator  Color  Color  Color  Composition  Connector Cable Durability  Meantime Between Failure (MTBF)  Compliance / Certification  Safety / Environmental  Ce, Weze, FCC, UL, VCCI, MIC, RoHS  Two-year manufacturer's warranty.   | Smart Card Interface Speed | 420 Kbps (when supported by card)   |
| Power to Smart Card  Smart Card Detection  B-Pin Handling  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), Server, 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  | 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  |
| 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  OMNIKEY Smart@Link Chipset  Blue LED  Color  Transparent / Silver  Options  Composition  Connector Cable  Durability  Meantime Between Failure (MTBF)  Compliance / Certification  Microsoft' WHQL <sup>3</sup> , EMV <sup>2</sup> 2000 Level 1, ISO 7816, HBCl <sup>4</sup> , USB 2.0 (USB 1.1 compatible), CCID1, GSA FIPS201 approved product list  Two-year manufacturer's warranty.  | 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  Connector Cable  59.1" (150 cm)  Durability  Meantime Between Failure (MTBF)  Compliance / Certification  Microsoft WHQL <sup>3</sup> , EMV <sup>2</sup> 2000 Level 1, ISO 7816, HBCl <sup>4</sup> , USB 2.0 (USB 1.1 compatible), CCID1, GSA FIPS201 approved product list  CE, WEEE, FCC, UL, VCCI, MIC, RoHS   | Smart Card Detection       | Movement detection with auto power-off / Automatic detection<br>of smart card type / Short circuit and thermal protection               |
| Supported APIS  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), 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 WHQL <sup>3</sup> , EMV <sup>2</sup> 2000 Level 1, ISO 7816, HBCl <sup>4</sup> , USB 2.0 (USB 1.1 compatible), CCID1, GSA FIPS201 approved product list  CE, WEEE, FCC, UL, VCCI, MIC, RoHS   | 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), Windows' Vista (32 bit / 64 bit), Windows 7 (32 bit / 64 bit), Windows' Vista (32 bit / 64 bit), Windows 7 (32 bit / 64 bit), Windows' Vista (32 bit / 64 bit), Windows 7 (32 bit / 64 bit), Windows' Vista (32 bit / 64 bit), Windows Vista (45 b | Supported APIs             |   |
| 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  100,000 insertions  Meantime Between Failure (MTBF)  Compliance / Certification  Microsoft' WHQL <sup>3</sup> , EMV <sup>2</sup> 2000 Level 1, ISO 7816, HBCl <sup>4</sup> , 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.   | PC / SC Driver Support     | Server, Windows' CE 5.0 / CE.NET / CE 6.0 (depending on hardware),<br>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' WHQL <sup>3</sup> , EMV <sup>2</sup> 2000 Level 1, ISO 7816, HBCl <sup>4</sup> , 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 <sup>3</sup> , EMV <sup>2</sup> 2000 Level 1, ISO 7816, HBCl <sup>4</sup> , 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 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.   | Color                      | Transparent / Silver  |
| Connector Cable  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.  | Options                    | Customer-specific logo, label and colors: available upon request  |
| 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.   | 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                   |   |

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

North America: +1 949 732 2000 Toll Free: 1 800 237 7769

Europe, Middle East, Africa: +44 1440 714 850 Asia Pacific: +852 3160 9800

Latin America: +52 55 5081 1650

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