# млякіли) MCR3590

## Keyboard with Contact Smart Card Reader



## Comfortable USB Wired Keyboard with Built-in Smart Card Reader

- ideal for online banking / secure access / eID card reader.

The MCR3590 is a functional USB wired keyboard with built-in IDENTIV chip Smart Card Reader. It is built on a highly resistant which ensures maximum reliability and durability material. The built-in Smart Card Reader brings extra security and ease for identification systems, secure web applications, and secure logon. Due to its secure nature. smart card keyboards are extensively used by industries like banking, healthcare, e-commerce, and government agencies. This device supports multiple international standards including ISO7816 for IC card standard, PC/SC for Windows Smart Card standard, Microsoft WHQL, and CCID standard.

The MCR3590 is an efficient and accurate Smart Card reader solution. The keyboard with the integrated card reader solution will help minimize the clutter of an external, free-standing card reading device on your desk. The keyboard has a waterproof design with drainage holes for easy cleaning, adjustable tilt, and a 1.5-meter cable to increase flexibility and comfort. Its black color makes it an ideal keyboard for any type of environment.

#### **User Convenience**

• Comfortable keyboard and e-ID card reader in one!

#### Reliable, fast, and secure

• Using IDENTIV's smart card reader chip solution, Transaction time optimized with support of 600 kbps in ISO/IEC 7816 for maximum end user acceptance

#### Mute button design

• The keyboard keys are silently designed, whether in a quiet office,Studying in the library or working late at night will create a comfortable keystroke environment for you.

#### UV process, long wear life

• UV technology is adopted for key characters, which is durable, wear-resistant and has longer service life.

### MARKLAND DATA SHEET

Keyboard           Interface         USB 2.0 / USB 1.1           Keybaard         Iayout English (customizable)           Key Number         106 Keys           Status LEDs         Num lock, Caps lock, Scroll lock           Connection type         Wired           Keyboard         ISO/IEC 7816 Farch 104, EWV 2011 Ver 4.3 Level 1 (compliant)           Supported Standards         ISO/IEC 7816 Farch 104, EWV 2011 Ver 4.3 Level 1 (compliant)           Supported Standards         ISO/IEC 7816 Farch 104, EWV 2011 Ver 4.3 Level 1 (compliant)           Supported Standards         ISO/IEC 7816 Farch 104, EWV 2011 Ver 4.3 Level 1 (compliant)           Supported Standards         ISO/IEC 7816 Farch 104, EWV 2011 Ver 4.3 Level 1 (compliant)           Supported Standards         ISO/IEC 7816 compliant; Operates up to 16 MHz           Smart Card Interface Speed         • Up to 600 kbps (depending on card)           • YA1=97         ISO/IEC 7816 compliant; Operates up to 16 MHz           Supported Smart Card Types         ISO/IEC 7816 smart card Clask A, B, and C           Smart Card Detection         Card present switch, Automatic power on/off; Short circuit protection           Card Size         ID-1           PC/SC Driver         • 8 pin ID-1 Siding Contact Socket           • C4C4 Support         • Card present switch, Automatic power on/off; Short circuit protection	Parameter	Details	
Keybaard         tayout English (customizable)           Key Humber         106 keys           Status LEDs         Num lock, Caps lock, Scroll lock           Connection type         Wired           Keyboard type         Membrane           Contact Smart Card Reader         Contact Smart Card Reader           Chip Solution         IDENTW           Supported Standards         ISO/IEC 7816 Part 1 to 4, EMV 2011 Ver 4.3 Level 1 (compliant)           Supported Tag ICs         All major ISO/IEC 7816 compliant smart cards and synchronous cards           Smart Card Protocols         T=0, snchronous cards 12C and 3-wire           Smart Card Interface Speed         • Up to 500 kbps (depending on card) • 1A197           Smart Card Interface Speed         • Up to 500 kbps (depending on card) • 1A197           Smart Card Interface Speed         • Up to 500 kbps (depending on card) • 1A197           Smart Card Interface Speed         • Up to 500 kbps (depending on card) • 1A197           Smart Card Detection         Card present switch, Automatic power on/off; Short circuit protection           Card present switch         • C/C/C Specification Ver. 2.0.1.4 for: • Windoxwk 72/10/1 (22 and 64 bit), • Android A.0 and higher           PC/SC Driver         USB Bus-powered           Color         Black           Material         AS           Color	Keyboard		
Key Number     106 keys       Status IEDs     Num lock, Caps lock, Scroll lock       Connection type     Wired       Keyboard type     Membrane       Contact Smart Card Reader       Chitact Smart Card Reader       Chitact Smart Card Reader       Supported Standards       ISO/EC 7816 Part 1 to 4, EMV 2011 Ver 4.3 Level 1 (compliant)       Supported Standards       Source Card Protocols       T=0, T=1, synchronous cards I2C and 3-wire       Up to 600 kbps (depending on card)       TAI = 97       Start Card Interface Speed       Up to 600 kbps (depending on card)       TAI = 97       Start Card Interface Speed       Up to 600 kbps (depending on card)       TAI = 97       Start Card Interface Speed       UP to 600 kbps (depending on card)       TAI = 97       Start Card Detection       Card present switch; Automatic power on/off; Short circuit protection       Card present switch; Automatic power on/off; Short circuit protection       Card Detection       Card present switch; Automatic power on/off; Short circuit protection       Card present switch; Automatic powe	Interface	USB 2.0 / USB 1.1	
Status LEDs     Num lock, Caps lock, Scröll lock       Connection type     Wired       Keyboard type     Wired       Chip Solution     IDENTIV       Supported Standards     ISO/EC 7816 Part 1 to 4, EMV 2011 Ver 4.3 Level 1 (compliant)       Supported Tag ICs     All major ISO/IEC 7816 compliant smart cards and synchronous cards       Smart Card Protools     T=0, T=1, synchronous cards IC2 and 3-wire       Smart Card Protools     T=0, T=1, synchronous cards IC2 and 3-wire       Smart Card Interface Speed     - Up to 600 kbps (depending on card)       Strat Card Interface Speed     - Up to 600 kbps (depending on card)       Smart Card Interface Speed     ISO/IEC 7816 compliant; Operates up to 16 MHz       Synported Smart Card Type     SV, 3V, and 1.8V; ISO 7816 smart card Class A, B, and C       Smart Card Detection     Card present switch, Automatic power on/off; Short circuit protection       Card present switch     - Card present switch       Contact Type     - PC/SC Specification Ver; 2:01.14 for;       - Vindowsø 7/B/10111 (22 and 64 bit), Windowsø Server 2008/2012/2016/2019, Windows XP,       - Wardowsø 7/B/10111 (22 and 64 bit), Windowsø Server 2008/2012/2016/2019, Windows XP,       - Windowsø 7/B/10111 (22 and 64 bit), Windowsø Server 2008/2012/2016/2019, Windows XP,       - Windowsø 7/B/10111 (22 and 64 bit), Windowsø Server 2008/2012/2016/2019, Windows XP,       - Windowsø 7/B/10111 (22 and 64 bit), Windowsø Server 2008/2012/2016/2019, Windowsø	Keyboard	layout English (customizable)	
Connection type         Wired           Keyboard type         Membrane           Contact Smart Card Reader           Chip Solution         IDENTV           Supported Standards         ISO/EC 7816 Part 1 to 4, EMV 2011 Ver 4.3 Level 1 (compliant)           Supported Tag ICS         All major ISO/IEC 7816 compliant smart cards and synchronous cards           Smart Card Protocols         T=0, T=1, synchronous cards 12C and 3-wire           Smart Card Interface Speed         'Up to 5600 kbps (depending on Card)           Smart Card Interface Speed         'Up to 5600 kbps (depending on Card)           Smart Card Interface Speed         SV, SV, and 1.8V, ISO 7816 smart card Class A, B, and C           Symported Smart Card Types         SV, 30, and 1.8V, ISO 7816 smart card Class A, B, and C           Somart Card Detection         Card present switch, Automatic power on/off; Short circuit protection           Contact Type         - ECXC Specification Ver 2.01.14 for: - Card present switch           PC/SC Specification Ver 2.01.14 for: - Windows PR/1011 (12 and 64 bit), Windows Server 2008/2012/2016/2019, Windows XP, - WacOS 10.9.x - 12.2.x, - Unin x 2.6.x, and 3.x, 4.x, 5 x (32 and 64 bit), - Android 4 on thigher           Perser Supply         US Bus-powered           Calor         Black           Material         ABS           Cable length         1.5 ± 0.01m           Dimensions(L x W x H) </td <td>Key Number</td> <td>106 keys</td>	Key Number	106 keys	
Keyboard type         Membrane           Contact Smart Card Reader           Chip Solution         IDENTIV           Supported Standards         ISO/IEC 7816 Part 1 to 4, EMV 2011 Ver 4.3 Level 1 (compliant)           Supported Tag ICS         All major ISO/IEC 7816 compliant smart cards and synchronous cards           Smart Card Protocols         T=0, T=1, synchronous cards I2C and 3-wire           Smart Card Interface Speed         *Up to 600 kbps (depending on card) •TA1=97           Smart Card Clock Frequency         ISO/IEC 7816 compliant; Operates up to 16 MHz           Supported Smart Card Types         SV, 3V, and 1.8V; ISO 7816 smart card Class A, B, and C           Smart Card Detection         Card present switch, Automatic power on/off; Short circuit protection           Card gresent switch         -Card present switch           Contact Type         • 8 pin ID-1 Siding Contact Socket           • C4/CB support         • Card present switch           PC/SC Driver         • Bin ID-1 Siding Contact Socket           • Card present switch         • Vindows® 7/8/10/11 (32 and 64 bit), Windows® Server 2008/2012/2016/2019, Windows XP,           • MacOS 10.9.x - 12.2.x,         • Mindovid 4.0 and higher           Color         Black           Material         ABS           Cable length         1.51_0.01m           Dimensions(L x W x	Status LEDs	Num lock, Caps lock, Scroll lock	
Contact Smart Card Reader           Chip Solution         IDENTIV           Supported Standards         ISO/IEC 7816 Part 1 to 4, EMV 2011 Ver 4.3 Level 1 (compliant)           Supported Tag ICs         All major ISO/IEC 7816 compliants mart cards and synchronous cards           Smart Card Protocols         T=0, T=1, synchronous cards I2C and 3-wire           Smart Card Interface Speed         • Up to 600 kbps (depending on card) • TA1=97           Smart Card Clock Frequency         ISO/IEC 7816 compliant; Operates up to 16 MHz           Supported Stand Card Types         5V, 3V, and 1.8V; ISO 7816 somat card Class A, B, and C           Smart Card Detection         Card present switch; Automatic power on/off; Short circuit protection           Card Size         ID-1           Contact Supported Standards         • Card Supported Standards           PC/SC Driver         • Spin ID-1 Siding Contact Socket • Card Present switch           PC/SC Driver         • Vindows® 7/8/10/11 (32 and 64 bit), Windows® Server 2008/2012/2016/2019, Windows XP, • MacCOS 10.9.X - 12.2.x, • Unux 2.6.x, and 3.x, 4.x, 5.x (32 and 64 bit), • Adardid 4.0 and higher           Power Supply         USB Bus-powered           Cale length         1.5.± 0.01m           Dimensions(X, W x H)         445 x 149 x 46 mm           Net Weight         485 y ± 5%           Gross Weight         61119 ± 5%           Packing s	Connection type	Wired	
Chip Solution         IDENTIV           Supported Standards         ISO/EC 7816 Part 1 to 4, EMV 2011 Ver 4.3 Level 1 (compliant)           Supported Tag ICS         All major ISO/EC 7816 compliant smart cards and synchronous cards           Smart Card Protocols         T=0, T=1, synchronous cards I2C and 3-wire           Smart Card Interface Speed         -Up to 600 kbps (depending on card)           Smart Card Interface Speed         IDO/EC 7816 compliant, Operates up to 16 MHz           Supported Smart Card Types         5V, 3V, and 1.8V, ISO 7816 smart card Class A, B, and C           Smart Card Detection         Card present switch; Automatic power on/off; Short circuit protection           Card Size         ID-1           Contact Type         •8 pin ID-1 Sliding Contact Socket           •C4/C8 support         •C4/C8 support           Vindows® 7/8/10/11 (32 and 64 bit), Windows® Server 2008/2012/2016/2019, Windows XP,           • Windows® 7/8/10/11 (32 and 64 bit),           • Android 4.0 and higher           Power Supply         USB Bus-powered           Calor         Black           Material         ABS           Cable length         1.5±0.01m           Dimensions(L x W x H)         443 x 149 x 46 mm           Net Weight         485 ± 5%           Gross Weight         611g ± 5% <td< td=""><td>Keyboard type</td><td>Membrane</td></td<>	Keyboard type	Membrane	
Supported Standards     ISO/IEC 7816 Part 1 to 4, EMV 2011 Ver 4.3 Level 1 (compliant)       Supported Tag ICs     All major ISO/IEC 7816 compliant smart cards and synchronous cards       Smart Card Protocols     T=0, T=1, synchronous cards I2C and 3-wire       Smart Card Interface Speed     'Up to 600 kbps (depending on card) - TA1=97       Smart Card Clock Frequency     ISO/IEC 7816 compliant; Operates up to 16 MHz       Supported Smart Card Types     5V, 3V, and 1.8V; ISO 7816 smart card Class A, B, and C       Smart Card Detection     Card present switch; Automatic power on/off; Short circuit protection       Card Size     ID-1       Contact Type     - 8 pin ID-1 Sliding Contact Socket - C4/C8 support       Cord present switch; Automatic power on/off; Short circuit protection     - 8 pin ID-1 Sliding Contact Socket - C4/C8 support       PC/SC Specification Ver. 2.01.14 for: - Windows® 7/8/10/11 (32 and 64 bit), Windows® Server 2008/2012/2016/2019, Windows XP, - MacOS 10.9 x - 12.2 x, - linux 2.6 x, and 3.x, 4x, 5 x (32 and 64 bit), - Android 4.0 and higher       Power Supply     USB Bus-powered       Color     Black       Material     ABS       Cable length     1.5 ± 0.01m       Dimensions(L x W x H)     443 x 149 x 46 mm       Net Weight     6119 ± 5%       Packing Size(L x W x H)     467 x 175 x 52 mm       Operating Temperature Range     -10° to 65° C       Operating Temperature Range     -10° to 65° C	Contact Smart Card Reader		
Supported Tag ICs     All major ISO/IEC 7816 compliant smart cards and synchronous cards       Smart Card Protocols     T=0, T=1, synchronous cards I2C and 3-wire       Smart Card Interface Speed     • Up to 600 kbps (depending on card) • TA1=97       Smart Card Clock Frequency     ISO/IEC 7816 compliant; Operates up to 16 MHz       Supported Smart Card Types     5V, 3V, and 1.8V; ISO 7816 smart card Class A, B, and C       Smart Card Detection     Card present switch; Automatic power on/off; Short circuit protection       Card Jize     ID-1       Contact Type     • 8 pin ID-1 Sliding Contact Socket • Card present switch; Automatic power on/off; Short circuit protection       Contact Type     • 8 pin ID-1 Sliding Contact Socket • Card present switch       Contact Type     • Card present switch       PC/SC Specification Ver. 2.01.14 for: • Windows@ 7/8/10/11 (32 and 64 bit), Windows@ Server 2008/2012/2016/2019, Windows XP, • MacOS 10.9.x - 12.2.x, • Linux 2.6.x, and 3.x, 4.x, 5.x (32 and 64 bit), • Android 4.0 and higher       Power Supply     USB Bus-powered       Color     Black       Material     A8S       Cable length     1.5 ± 0.01m       DimensionsL x W x H)     433 x 149 x 46 mm       Net Weight     459 ± 5%       Gross Weight     611g ± 5%       Packing Size(L x W x H)     467 x 175 x 52 mm       Operating Temperature Range     0° to 50° C       Storage Temperature Range     0° t	Chip Solution	IDENTIV	
Smart Card Protocols     T=0, T=1, synchronous cards i2C and 3-wire       Smart Card Interface Speed     • Up to 600 kbps (depending on card) • TA1=97       Smart Card Clock Frequency     ISO/IEC 7816 compliant; Operates up to 16 MHz       Supported Smart Card Types     5%, 3V, and 1.8V; ISO 7816 smart card Class A, B, and C       Smart Card Detection     Card present switch; Automatic power on/off; Short circuit protection       Card Size     ID-1       Contact Type     • 8 pin ID-1 Silding Contact Socket • Card present switch       Contact Type     • 8 pin ID-1 Silding Contact Socket • Card present switch       Present     • CAC'S support • Card present switch       Present     • CAC'S Support • Card present switch       Present     • Windows@ N2/N1/1 (32 and 64 bit), Windows@ Server 2008/2012/2016/2019, Windows XP, • Windows@ N2/N1/1 (32 and 64 bit), • Android 4.0 and higher       Power Supply     USB Bus-powered       Color     Black       Material     ABS       Cable length     0.5 ± 0.01m       Dimensions(L x W x H)     443 x 149 x 46 mm       Net Weight     467 x 175 x 52 mm       Operating Temperature Range     • 0'to 50° C       Storage Temperature Range     • 0'to 50° C       Operating Temperature Range     • 0'to 50° C       Operating Temperature Range     • 0'to 50° C	Supported Standards	ISO/IEC 7816 Part 1 to 4, EMV 2011 Ver 4.3 Level 1 (compliant)	
Smart Card Interface Speed         • Up to 600 kbps (depending on card) • TA1=97           Smart Card Clock Frequency         ISO/EC 7816 compliant; Operates up to 16 MHz           Supported Smart Card Types         SV, 3V, and 1.8V; ISO 7816 smart card Class A, B, and C           Smart Card Detection         Card present switch; Automatic power on/off; Short circuit protection           Card Size         ID-1           Contact Type         • Card present switch           Contact Type         • Card present switch           Contact Type         • Card present switch           PC/SC Driver         • Card present switch           Vindows@ 7/8/10/11 (32 and 64 bit), Windows@ Server 2008/2012/2016/2019, Windows XP, • MacOS 10.9.x - 12.2.x, • Linux 2.6.x, and 3.x, 4.x, 5.x (32 and 64 bit), • Android 4.0 and higher           Power Supply         USB Bus-powered           Color         Black           Material         ABS           Cable length         1.5 ± 0.01m           Dimensions(L x W x H)         443 x 149 x 46 mm           Net Weight         485 ± 5%           Gross Weight         611g ± 5%           Packing size(L x W x H)         467 x 175 x 52 mm           Operating Temperature Range         0°to 50° C           Storage Temperature Range         0°to 50° C           Storage Temperature Range <t< td=""><td>Supported Tag ICs</td><td>All major ISO/IEC 7816 compliant smart cards and synchronous cards</td></t<>	Supported Tag ICs	All major ISO/IEC 7816 compliant smart cards and synchronous cards	
Smart Card Interface Speed         • TA1=97           Smart Card Clock Frequency         ISO/IEC 7816 compliant; Operates up to 16 MHz           Supported Smart Card Types         5V, 3V, and 1.8V; ISO 7816 smart card Class A, B, and C           Smart Card Detection         Card present switch, Automatic power on/off; Short circuit protection           Card Size         ID-1           Contact Type         • C4/C8 support           • Card present switch         • Card present switch           PC/SC Driver         • C4/C8 support           • Card present switch         • Card present switch           PC/SC Driver         • C4/C8 support           • Card present switch         • Card present switch           PC/SC Driver         • Vindows@ 7/81/0/11 (32 and 64 bit), Windows@ Server 2008/2012/2016/2019, Windows XP,           • MacOS 10.9.x - 12.2.x,         • Linux 2.6.x. and 3.x.4.x.5.x (32 and 64 bit),           • Android 4.0 and higher         • Card ord and higher           Power Supply         USB Bus-powered           Color         Black           Material         ABS           Cable length         1.5 ± 0.01m           Dimensions(L x W x H)         443 x 149 x 46 mm           Net Weight         485 ± 5%           Gross Weight         6119 ± 5%           Packing siz	Smart Card Protocols	T=0, T=1, synchronous cards I2C and 3-wire	
Image:	Smart Card Interface Speed	• Up to 600 kbps (depending on card)	
Supported Smart Card Types5V, 3V, and 1.8V; ISO 7816 smart card Class A, B, and CSmart Card DetectionCard present switch; Automatic power on/off; Short circuit protectionCard SizeID-1Contact Type $\cdot$ 8 pin ID-1 Sliding Contact Socket $\cdot$ Card present switch $\cdot$ C4/C8 supportCard present switch $\cdot$ C4/C8 SupportPC/SC Driver $\cdot$ Card present switchPC/SC Driver $\cdot$ Nindows@ 7/8/10/11 (32 and 64 bit), Windows@ Server 2008/2012/2016/2019, Windows XP, $\cdot$ MacOS 10.9.x - 12.2.x, $\cdot$ Linux 2.6.x, and 3.x.4.x, 5.x (32 and 64 bit), $\cdot$ NarcoS 10.9.x - 12.2.x, $\cdot$ Linux 2.6.x, and 3.x.4.x, 5.x (32 and 64 bit), $\cdot$ NarcoS 10.9.x - 12.2.x, $\cdot$ Linux 2.6.x, and 3.x.4.x, 5.x (32 and 64 bit), $\cdot$ NarcoS 10.9.x - 12.2.x, $\cdot$ Linux 2.6.x, and 3.x.4.x, 5.x (32 and 64 bit), $\cdot$ NatcoS 10.9.x - 12.2.x, $\cdot$ Linux 2.6.x, and 3.x.4.x, 5.x (32 and 64 bit), $\cdot$ NatcoS 10.9.x - 12.2.x, $\cdot$ Linux 2.6.x, and 3.x.4.x, 5.x (32 and 64 bit), $\cdot$ NatcoS 10.9.x - 12.2.x, $\cdot$ Linux 2.6.x, and 3.x.4.x, 5.x (32 and 64 bit), $\cdot$ NatcoS 10.9.x - 12.2.x, $\cdot$ Linux 2.6.x, and 3.x.4.5.X (32 and 64 bit), $\cdot$ NatcoS 10.9.x - 12.2.x, $\cdot$ Linux 2.6.x, and 3.x.4.5.X (32 and 64 bit), $\cdot$ NatcoS 10.9.x - 12.2.x, $\cdot$ Linux 2.6.x, and 3.x.4.5.X (32 and 64 bit), $\cdot$ NatcoS 10.9.x - 12.2.x, $\cdot$ Linux 2.6.x, and 3.x.4.5.X (32 and 64 bit), $\cdot$ Diver SB Bus-powered $\cdot$ Sochrad thigherColorBlackMaterialABSCable length1.5 ±0.01mDimensions(L x W x H)443 x 149 x 46		• TA1=97	
Smart Card Detection         Card present switch; Automatic power on/off; Short circuit protection           Card Size         ID-1           Contact Type         • 8 pin ID-1 Sliding Contact Socket • C4/C8 support • Card present switch           PC/SC Driver         PC/SC Specification Ver. 2.01.14 for: • Windows@ 7/8/10/11 (32 and 64 bit), Windows@ Server 2008/2012/2016/2019, Windows XP, • MacOS 10.9.x • 12.2.x, • Linux 2.6.x, and 3.x, 4.x, 5.x (32 and 64 bit), • Android 4.0 and higher           Power Supply         USB Bus-powered           Color         Black           Material         ABS           Cable length         1.5±0.01m           Dimensions(L x W x H)         443x 149 x 46 mm           Net Weight         485g ± 5%           Gross Weight         611g ± 5%           Packing size(L x W x H)         467 x 175 x 52 mm           Operating Temperature Range         0° to 50° C           Storage Temperature Range         1-0° to 65° C           Operating Humidity Range         Up to 95% RH non-condensing	Smart Card Clock Frequency	ISO/IEC 7816 compliant; Operates up to 16 MHz	
Card SizeID-1Contact Type8 pin ID-1 Sliding Contact Socket • C4/C8 support • Card present switchPC/SC DriverPC/SC Specification Ver. 2.01.14 for: • Windows® / PX/I0/11 (32 and 64 bit), Windows® Server 2008/2012/2016/2019, Windows XP, • MacOS 10.9.x - 12.2.x, • Linux 2.6.x, and 3.x, 4.x, 5.x (32 and 64 bit), • Android 4.0 and higherPower SupplyUSB Bus-poweredColorBlackMaterialABSCable length1.5±0.01mDimensions(L x W x H)443 x 149 x 46 mmNet Weight485 g ± 5%Gross Weight611g ± 5%Packing size(L x W x H)467 x 175 x 52 mmOperating Temperature Range-10° to 65° COperating Humidity RangeUp to 95% RH non-condensingCertifications / Compliance	Supported Smart Card Types	5V, 3V, and 1.8V; ISO 7816 smart card Class A, B, and C	
• 8 pin ID-1 Sliding Contact Socket         • Contact Type         • C4/C8 support         • Card present switch         PC/SC Specification Ver. 2.01.14 for:         • Windows@ 7/8/10/11 (32 and 64 bit), Windows@ Server 2008/2012/2016/2019, Windows XP,         • MacOS 10.9.x - 12.2.x,         • Linux 2.6.x, and 3.x, 4.x, 5.x (32 and 64 bit),         • Android 4.0 and higher         Power Supply       USB Bus-powered         Color       Black         Material       ABS         Cable length       1.5±0.01m         Dimensions(L x W x H)       443 x 149 x 46 mm         Net Weight       485 g ± 5%         Gross Weight       611g ± 5%         Packing size(L x W x H)       467 x 175 x 52 mm         Operating Temperature Range       0° to 50° C         Storage Temperature Range       0° to 50° C         Operating Humidity Range       Up to 95% RH non-condensing         Certifications / Compliance	Smart Card Detection	Card present switch; Automatic power on/off; Short circuit protection	
Contact Type       • C4/C8 support         • Card present switch         PC/SC Specification Ver. 2.01.14 for:         • Windows@ 7/8/10/11 (32 and 64 bit), Windows@ Server 2008/2012/2016/2019, Windows XP,         • Windows@ 7/8/10/11 (32 and 64 bit), Windows@ Server 2008/2012/2016/2019, Windows XP,         • Windows@ 7/8/10/11 (32 and 64 bit), Windows@ Server 2008/2012/2016/2019, Windows XP,         • Windows@ 7/8/10/11 (32 and 64 bit), Windows@ Server 2008/2012/2016/2019, Windows XP,         • Windows@ 7/8/10/11 (32 and 64 bit), Windows@ Server 2008/2012/2016/2019, Windows XP,         • Windows@ 7/8/10/11 (32 and 64 bit), Windows@ Server 2008/2012/2016/2019, Windows XP,         • Windows@ 7/8/10/11 (32 and 64 bit), Windows@ Server 2008/2012/2016/2019, Windows XP,         • Windows@ 0/8/10/11 (32 and 64 bit), Windows@ Server 2008/2012/2016/2019, Windows XP,         • Windows@ 0/8/10/11 (32 and 64 bit), Windows@ Server 2008/2012/2016/2019, Windows XP,         • Windows@ 0/8/10/11 (32 and 64 bit), Windows@ Server 2008/2012/2016/2019, Windows XP,         • Windows@ 0/8/10/11 (32 and 64 bit), Windows@ Server 2008/2012/2016/2019, Windows@ Server 2008/2012/2016/2014, Windows@ Server 2008/2014, Windows@ Server 2008/2014, Windows@ Server 2008/2014, Windows@ Server 2008/2014, Windows@	Card Size	ID-1	
• Card present switch         PC/SC Driver       PC/SC Specification Ver. 2.01.14 for: • Windows® 7/8/10/11 (32 and 64 bit), Windows® Server 2008/2012/2016/2019, Windows XP, • MacOS 10.9.x - 12.2.x, • Linux 2.6.x, and 3.x, 4.x, 5.x (32 and 64 bit), • Android 4.0 and higher         Power Supply       USB Bus-powered         Color       Black         Material       ABS         Cable length       1.5±0.01m         Dimensions(L x W x H)       443 x 149 x 46 mm         Net Weight       611g ± 5%         Packing size(L x W x H)       467 x 175 x 52 mm         Operating Temperature Range       0° to 50° C         Storage Temperature Range       1.0° to 65° C         Operating Humidity Range       Up to 95% RH non-condensing	Contact Type	• 8 pin ID-1 Sliding Contact Socket	
PC/SC DriverPC/SC Specification Ver. 2.01.14 for: • Windows@ 7/8/10/11 (32 and 64 bit), Windows@ Server 2008/2012/2016/2019, Windows XP, • MacOS 10.9.x - 12.2.x, • Linux 2.6.x, and 3.x, 4.x, 5.x (32 and 64 bit), • Android 4.0 and higherGeneralPower SupplyUSB Bus-poweredColorBlackMaterialABSCable length1.5±0.01mDimensions(L x W x H)443 x 149 x 46 mmNet Weight485 g ± 5%Gross Weight611g ± 5%Packing size(L x W x H)467 x 175 x 52 mmOperating Temperature Range0° to 50° CStorage Temperature Range1.0° to 65° COperating Humidity RangeUp to 95% RH non-condensingCertifications / Compliance			
PC/SC Driver       •Windows@ 7/8/10/11 (32 and 64 bit), Windows@ Server 2008/2012/2016/2019, Windows XP,         •MacOS 10.9.x - 12.2.x,       •MacOS 10.9.x - 12.2.x,         •Linux 2.6.x, and 3.x, 4.x, 5.x (32 and 64 bit),       •Android 4.0 and higher         Forearal       General         Power Supply       USB Bus-powered         Color       Black         Material       ABS         Cable length       1.5±0.01m         Dimensions(L x W x H)       443 x 149 x 46 mm         NetWeight       485g ± 5%         Gross Weight       611g ± 5%         Packing size(L x W x H)       647 x 175 x 52 mm         Operating Temperature Range       °to 50° C         Storage Temperature Range       10° to 65° C         Operating Humidity Range       Up to 95% RH non-condensing			
PC/SC Driver       • MacOS 10.9.x - 12.2.x,         • Linux 2.6.x, and 3.x, 4.x, 5.x (32 and 64 bit),         • Linux 2.6.x, and 3.x, 4.x, 5.x (32 and 64 bit),         • Android 4.0 and higher         General         Power Supply       USB Bus-powered         Color       Black         Material       ABS         Cable length       1.5±0.01m         Dimensions(L x W x H)       443 x 149 x 46 mm         Net Weight       485g ± 5%         Gross Weight       611g ± 5%         Packing size(L x W x H)       467 x 175 x 52 mm         Operating Temperature Range       0° to 50° C         Storage Temperature Range       1.0° to 65° C         Operating Humidity Range       Up to 95% RH non-condensing         Certifications / Compliance	PC/SC Driver		
• Linux 2.6.x, and 3.x, 4.x, 5.x (32 and 64 bit),         • Android 4.0 and higher         General         Power Supply       USB Bus-powered         Color       Black         Material       ABS         Cable length       1.5±0.01m         Dimensions(L x W x H)       443 x 149 x 46 mm         Net Weight       485g ± 5%         Gross Weight       611g ± 5%         Packing size(L x W x H)       467 x 175 x 52 mm         Operating Temperature Range       0° to 50° C         Storage Temperature Range       -10° to 65° C         Operating Humidity Range       Up to 95% RH non-condensing			
• Android 4.0 and higher         General         Power Supply       USB Bus-powered         Color       Black         Material       ABS         Cable length       1.5±0.01m         Dimensions(L x W x H)       443 x 149 x 46 mm         Net Weight       443s 149 x 46 mm         Net Weight       611g ± 5%         Gross Weight       611g ± 5%         Packing size(L x W x H)       467 x 175 x 52 mm         Operating Temperature Range       0° to 50° C         Storage Temperature Range       -10° to 65° C         Operating Humidity Range       Up to 95% RH non-condensing			
General           Power Supply         USB Bus-powered           Color         Black           Material         ABS           Cable length         1.5±0.01m           Dimensions(L x W x H)         443 x 149 x 46 mm           Net Weight         485g ± 5%           Gross Weight         611g ± 5%           Packing size(L x W x H)         467 x 175 x 52 mm           Operating Temperature Range         0° to 50° C           Storage Temperature Range         -10° to 65° C           Operating Humidity Range         Up to 95% RH non-condensing			
ColorBlackMaterialABSCable length1.5±0.01mDimensions(L x W x H)443 x 149 x 46 mmNet Weight485g ± 5%Gross Weight611g ± 5%Packing size(L x W x H)467 x 175 x 52 mmOperating Temperature Range0° to 50° CStorage Temperature Range-10° to 65° COperating Humidity RangeUp to 95% RH non-condensing			
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Cable length         1.5±0.01m           Dimensions(L x W x H)         443 x 149 x 46 mm           Net Weight         485g ± 5%           Gross Weight         611g ± 5%           Packing size(L x W x H)         467 x 175 x 52 mm           Operating Temperature Range         0° to 50° C           Storage Temperature Range         -10° to 65° C           Operating Humidity Range         Up to 95% RH non-condensing	Color	Black	
Dimensions(L x W x H)443 x 149 x 46 mmNet Weight485g ± 5%Gross Weight611g ± 5%Packing size(L x W x H)467 x 175 x 52 mmOperating Temperature Range0° to 50° CStorage Temperature Range-10° to 65° COperating Humidity RangeUp to 95% RH non-condensingCertifications / Compliance	Material	ABS	
Net Weight485g ± 5%Gross Weight611g ± 5%Packing size(L x W x H)467 x 175 x 52 mmOperating Temperature Range0° to 50° CStorage Temperature Range-10° to 65° COperating Humidity RangeUp to 95% RH non-condensingCertifications / Compliance	Cable length	1.5±0.01m	
Gross Weight       611g ± 5%         Packing size(L x W x H)       467 x 175 x 52 mm         Operating Temperature Range       0° to 50° C         Storage Temperature Range       -10° to 65° C         Operating Humidity Range       Up to 95% RH non-condensing	Dimensions(L x W x H)	443 x 149 x 46 mm	
Packing size(L x W x H)       467 x 175 x 52 mm         Operating Temperature Range       0° to 50° C         Storage Temperature Range       -10° to 65° C         Operating Humidity Range       Up to 95% RH non-condensing	Net Weight	485g ± 5%	
Operating Temperature Range     0° to 50° C       Storage Temperature Range     -10° to 65° C       Operating Humidity Range     Up to 95% RH non-condensing    Certifications / Compliance	Gross Weight	$611g \pm 5\%$	
Operating Temperature Range     0° to 50° C       Storage Temperature Range     -10° to 65° C       Operating Humidity Range     Up to 95% RH non-condensing    Certifications / Compliance	Packing size(L x W x H)	467 x 175 x 52 mm	
Storage Temperature Range     -10° to 65° C       Operating Humidity Range     Up to 95% RH non-condensing       Certifications / Compliance		0° to 50° C	
Certifications / Compliance			
Certifications / Compliance			
Systems/Standards   ISO/IEC 7816, USB 2.0, PC/SC, CCID, Microsoft® WHQL	Systems/Standards	ISO/IEC 7816, USB 2.0, PC/SC, CCID, Microsoft® WHQL	
Regulatory/Environmental CE, RoHS			