

MARKLAND

MCR 3591

Next Generation Keyboard
with Contact & Contactless
Smart Card Reader



MCR 3591

Next Generation Keyboard



Contactless Smart Card Interface

Card Size	ID-1 (Full size) Tokens NFC-enabled smartphones
Card Types	National e-ID Cards, Residence Permits, Driver's Licenses, Health Cards, Payment Cards, Transit Cards, Access Control Cards, NFC Tags, Mobile Phones with NFC
Standards	• ISO/IEC 14443 Type A & B Parts 1-4 • ISO/IEC 18092 (NFC)
Supported Card Types	• ISO 14443 Type A & B • MIFARE™ (Classic, Ultralight, Ultralight C, MIFARE PLUS, DESFire, DESFire EV1 2/4/8k) • FeliCa™ • NFC Forum Tag types 1, 2, 3, 4
Operating Frequency	13.56 MHz
Reading Distance	Up to 50 mm (Depending on tag type)
Read / Write Speed	Up to 848 kbps (ISO14443)
Supported NFC Mode	Card Reader/Writer

Contact Smart Card Interface

Card Size	ID-1 (Full size)
Card Types	National ID Cards, Residence Permits, Driver's Licenses, Health Cards, EMV Chip Cards (Banking)
Standards	• ISO/IEC 7816 Part 1 to 4 • EMV 2011 Ver 4.3 Level 1 (compliant)
Supported Card Types	Class A: 5V; Class B: 3V; Class C: 1.8V
Protocols	Asynchronous: T=0, T=1
Insertion Cycles	100,000
Interface Speed	Up to 600 kbps
Clock Frequency	up to 16 MHz
Detection	Card present switch; Automatic power on/off; Short circuit protection
8-Pin Handling	C4/C8 supported; ID-1 Sliding Contact Socket (8 pin)

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Keyboard

Layout	English
Key Number	106 keys
Key Type	Membrane
Status LEDs	Num lock, Caps lock, Scroll lock
Material	ABS Black

Host Interface

Protocol	USB CCID
Connector Type	USB Type- A connector; 150 cm cable
Speed	USB 2.0 Full Speed (12 Mbps) / USB 1.1
Supply Voltage	5VDC
USB Firmware Upgrade	Supported

Physical

Dimensions	443 x 149 x 46 mm
Packaging Size	467 x 175 x 52 mm
Weight	495 g

Operating Conditions

Operating Temperature	0° to 50° C
Operating Humidity	0-95% rH
Storage Temperature	-10° to 65° C

Certification & Compliance

Certifications	CE, RoHS, Microsoft® WHQL
Compliance	ISO/IEC 7816, ISO/IEC 14443, ISO/IEC 18092, USB 2.0, CCID

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Drivers & Support

Driver Supported OS	- Windows® 7/8/10/11 (32/64 bit) - Server 2008/2012/2016/2019 - Windows XP - macOS 10.9.x - 12.2.x - Linux 2.6.x, 3.x, 4.x, 5.x (32/64 bit) - Android 4.0 and higher
Supported APIs	PC/SC - API

Warranty

Warranty	1 year
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