

MARKLAND

MCR 3590

Next Generation Keyboard
with Contact Smart Card Reader



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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 12 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)

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	Not Supported

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Physical

Dimensions	443 x 149 x 46 mm
Packaging Size	467 x 175 x 52 mm
Weight	485 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, USB 2.0, PC/SC, CCID

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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