

MARKLAND

MCR 3521

High-performance smart card
reader with a USB interface



MCR 3521

Smart Card Reader

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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), CAC, PIV
Standards	- ISO/IEC 7816 Part 1 to 4 - EMV 2011 Ver 4.3 Level 1 (compliant) - CAC (Common Access Card) - PIV (Personal Identity Verification)
Supported Card Types	Class A: 5V @ 60 mA; Class B: 3V @ 55 mA; Class C: 1.8V @ 35 mA
Protocols	Asynchronous: T=0, T=1; Synchronous: I ² C, 3-wire
Insertion Cycles	500,000
Interface Speed	Up to 600 kbps
Clock Frequency	up to 16 MHz
Detection	Movement detection with auto power-off; Automatic detection of smart card type; Short circuit and thermal protection
8-Pin Handling	C4/C8 supported; Landing Contact Socket

Host Interface

Protocol	USB CCID
Connector Type	USB Type- A connector; 150 cm cable
Speed	USB 2.0 Full Speed (12 Mbps)
Supply Voltage	5VDC
Current Consumption	Max. 60mA
USB Firmware Upgrade	Not Supported

Physical Characteristics

Dimension	95 x 65 x 85 mm
Weight (±5 g)	400 g
Status Indicator	Green Led

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Operating Conditions

Operating Temperature	0° to 50° C
Operating Humidity	10-95% rH
Storage Temperature	-20° to 60° C

Certification & Compliance

Certifications	CE, RoHS, Microsoft® WHQL
Compliance	ISO/IEC 7816, USB 2.0 Full Speed, USB CCID, EMV 2011 Ver 4.3 Level 1, CAC, PIV

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 8.0 and higher
Supported APIs	PC/SC - API

Warranty

Warranty	1 year
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Meet MCR 35 Series

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Smart Card Reader



Parameter		MCR 3512	MCR 3516	MCR 3521
Card Size	ID-1	√		
	ID-000 (SIM)	√		×
	Micro SIM	×	√	×
	Nano SIM	×	√	×
Card Types		National ID, Resident Permit, Driver's License, Health Card, EMV Banking, SIM	National ID, Resident Permit, Driver's License, Health Card, EMV Banking, SIM, Micro SIM, Nano SIM	National ID, Resident Permit, Driver's License, Health Card, EMV Banking, CAC, PIV
Standards	ISO/IEC 7816	√		
	EMV 2011 Level 1	√		
	CAC, PIV	×	×	√
Speed	Up to 600 kbps	√		
Contact Type		Sliding (8 pin / 6 pin)	Sliding Contact Socket	Landing Contact Socket
Insertion Cycles		100,000	100,000	500,000
OS Support	Windows	√	√	√
	Linux	√	√	√
	Android	Android 4.0+	Android 8.0+	