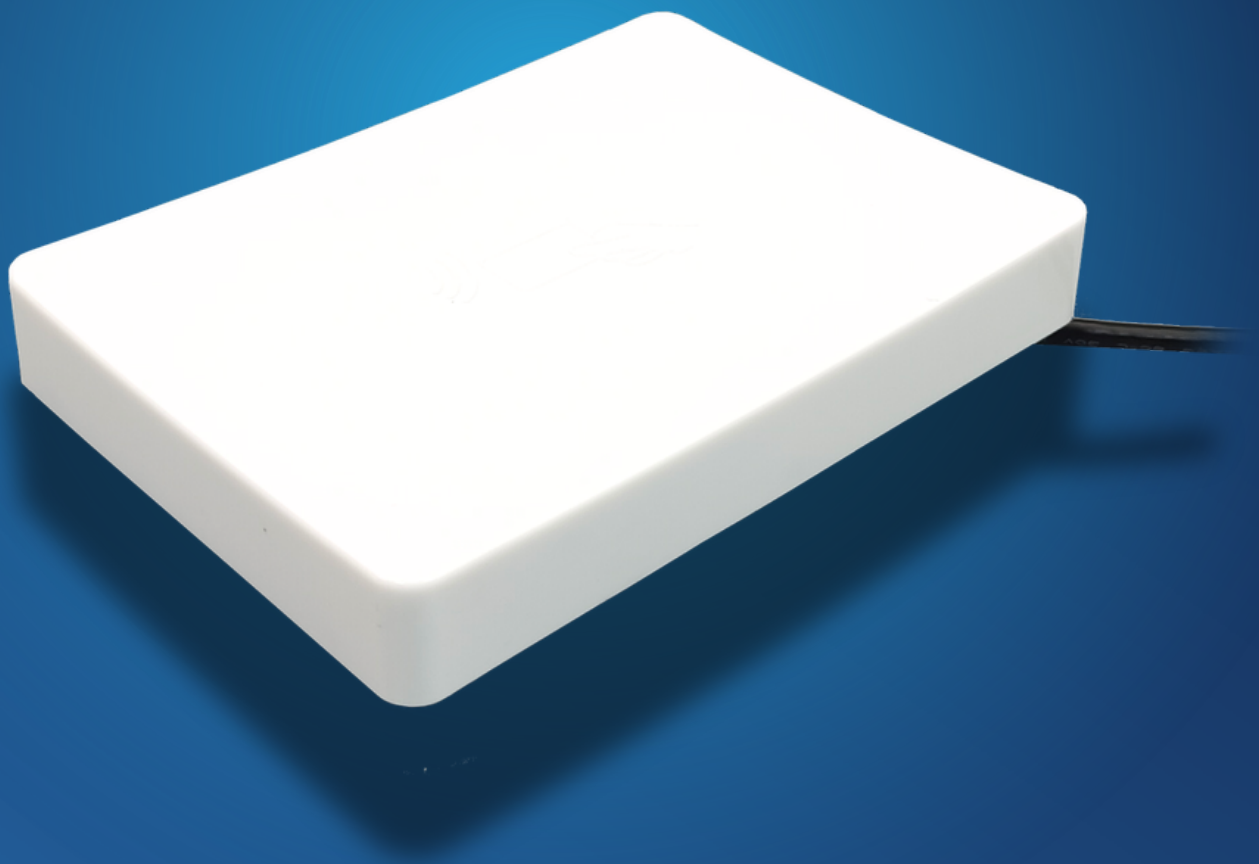


MARKLAND

MCR 0110v5

High-frequency contactless smart
card reader with SAM



MCR 0110v5

Contactless Card Reader



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 - NFC Forum Tag Types 1, 2, 3, 4
Supported Card Types	- ISO 14443 Type A & B - MIFARE™ (Classic, Ultralight, Ultralight C, MIFARE PLUS, DESFire, DESFire EV1 2/4/8k) - FeliCa™ - Calypso - CD21 - 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-000
Card Types	SAM (Secure Access Module), National e-ID Cards, EMV Chip Cards
Standards	ISO/IEC 7816 Part 1 to 4
Supported Card Types	Class A: 5V; Class B: 3.3V; Class C: 1.8V
Protocols	Asynchronous: T=0, T=1; Synchronous: I²C, 3-wire
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

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Contactless Card Reader

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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. 300 mA
USB Firmware Upgrade	Supported

Physical Characteristics

Dimension	112 x 80 x 21 mm
Weight (±5 g)	17 g
Status Indicator	Green & Red LED

Operating Conditions

Operating Temperature	0° to 50° C
Operating Humidity	10-95% rH
Storage Temperature	-25° to 85° C

Certification & Compliance

Certifications	CE, RoHS, Microsoft® WHQL
Compliance	ISO/IEC 7816, ISO/IEC 14443, USB 2.0 Full Speed, USB 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 8.0 and higher
Supported APIs	PC/SC - API

Warranty

Warranty	1 year
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