

# MCR3500

## Mini Contact Smart Card Reader / Writer

This USB CCID PC/SC ultra-compact reader / writer - ideal for online banking / secure access / ID card reader.

For high security in demanding corporate environments, Markland offers a number of solutions, ranging from desktop smart card readers to mobile smart card tokens that can be used with a variety of smart card-technology based credentials.

MCR3500 offers users secure mobility for mobile desktop applications in PC connected mode and a contactless smart card token in autonomous mode for a host of contactless applications.

MCR3500 enable strong two-factor authentication, combining something users have — the token — with something they know — their PIN code.

Depending on the type of smart card chosen, the MCR3500 Standard can be used for logging on to a PC, signing and encrypting documents or emails, and authenticating to secure web sites or the user's company's virtual private network (VPN). If a dual interface card is used, the token can double up as a contactless credential that can be used for physical access to buildings, contactless electronic payments, and contactless electronic ticketing for transportation and events.

### Ready To Use

- Driver support for all major PC operating systems

### Supports All Applications

- Supports all major smart card ICs and technologies in just one device

### Fast

- Transaction time optimized for maximum end-user acceptance

### Convenient

- Ultra-compact and robust design streamlined for mobile operation

### Field Proven Firmware

- Powered by Identiv-specific SmartOS™

Parameter	Details
Host Interface	USB 2.0 CCID (USB 1.1/3.0 compliant)
Communication Speed	12 Mbps (USB 2.0 full speed)
<b>Support</b>	
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	<ul style="list-style-type: none"> <li>Up to 600 kbps (depending on card)</li> <li>TA1=97</li> </ul>
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
Power to Smart Card	60mA in Class A; 55mA in Class B; 35mA in Class C
Smart Card Detection	Card present switch; Automatic power on/off; Short circuit protection
Card Size	ID-000(SIM size)
Contact Type	<ul style="list-style-type: none"> <li>6 pin ID-000 Sliding Contact Socket</li> <li>C4/C8 support</li> <li>Card present switch</li> </ul>
<b>Driver and Software</b>	
PC/SC Driver	PC/SC Specification Ver. 2.01.14 for: <ul style="list-style-type: none"> <li>Windows® 7/8/10/11 (32 and 64 bit), Windows® Server 2008/2012/2016/2019, WindowsXP,</li> <li>MacOS 10.9.x - 12.2.x,</li> <li>Linux 2.6.x, and 3.x, 4.x, 5.x (32 and 64 bit),</li> <li>Android 8.0 and higher</li> </ul>
Software	<ul style="list-style-type: none"> <li>PC/SC API</li> <li>CT-API (through wrapper on top of PC/SC)</li> <li>M-Card API (through wrapper on top of PC/SC)</li> </ul>
<b>Operating Conditions</b>	
Power Supply	USB Bus-powered
Power Consumption	<6mA excluding smart card; <20mA with standard card; <500µA in standby mode
Dimensions(L x W x H)	49 x 18.3 x 13mm
Weight	9g ± 5%
Operating Temperature Range	0° to 50° C (32° to 122° F)
Storage Temperature Range	-20° to 60° C (-4° to 140° F)
Operating Humidity Range	Up to 95% RH non-condensing
Durability	Sliding contact 100,000 card insertions
Connector	USB type A connector
Status Indicator	Green LED
Firmware	SmartOS™
Firmware In-Field Upgradeable	No
<b>Certifications / Compliance</b>	
Systems/Standards	ISO/IEC 7816, USB 2.0 Full Speed, CCID, Microsoft® WHQL
Regulatory/Environmental	CE, RoHS