

# MARKLAND

## MCR3516

### Multifunction Contact Smart Card Reader

#### Support ID-1 card/SIM card/Micro SIM/Nano SIM-ideal for card Reader

MCR3516 is the ideal PC-linked USB contact smart card reader for a huge variety of mobile applications. Providing full compliance with all major industry standards, such as ISO/IEC 7816, USB CCID, PC/SC, and Microsoft WHQL, MCR3516 works seamlessly with virtually all contact smart cards and PC operating systems. MCR3516 is also the first smart card reader in the industry that offers the reversible type A connector, improving on-the-go user experience.

With its ultra-compact yet reliable Markland design and mechanical functionality, it is the ideal travel companion for mobile users requiring the same level of data protection as is required for desktop applications. The extended card data transmission rate of up to 600 kbps with the support of

TA1=97 enables the shortest possible transaction time for maximum end-user convenience. The Identiv-specific SmartOS™ features easy and complete support of all major contact smart cards. The Identiv driver platform, as well as the Windows® Plug-and-Play driver support, allow seamless integration into any end-user environment with very little or no administration.

With MCR3516, the end user experiences convenience, transaction-time efficiency, security, and reliability for applications such as network login, Windows authentication and Single Sign-On (SSO), banking and cashless payment applications, as well as high-security use cases for federal governments.

#### 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	1FF or 2FF or 3FF or 4FF card
Contact Type	<ul style="list-style-type: none"> <li>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)	68 x 48 x 13mm
Weight	78g ± 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