MARKLAND

MCR3521

USB Contact Smart Card Reader

Application-ready CAC and PIV-approved reader features optional stand base.

MCR3521 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, MCR3521 works seamlessly with virtually all contact smart cards and PC operating systems. MCR3521 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-speciffc 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 MCR3521 , 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)
Support	
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	• Up to 600 kbps (depending on card) • TA1=97
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-1
Contact Type	• Landing Contact Socket • C4/C8 support • Card present switch
Driver and Software	
PC/SC Driver	PC/SC Specification Ver. 2.01.14 for: • Windows® 7/8/10/11 (32 and 64 bit), Windows® Server 2008/2012/2016/2019, WindowsXP, • MacOS 10.9.x - 12.2.x, • Linux 2.6.x, and 3.x, 4.x, 5.x (32 and 64 bit), • Android 8.0 and higher
Software	• PC/SC API • CT-API (through wrapper on top of PC/SC) • M-Card API (through wrapper on top of PC/SC)
Operating Conditions	
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)	95 x 65 x 85mm（with stand）
Weight	400g ± 5% (with stand)
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	Landing contact 300,000 card insertions
Connector	USB type A connector
Status Indicator	Green LED
Firmware	SmartOS™
Firmware In-Field Upgradeable	No
Certifications / Compliance	
Systems/Standards	ISO/IEC 7816, USB 2.0 Full Speed, CCID, Microsoft® WHQL
Regulatory/Environmental	CE, RoHS