

MARKLAND

MCR3501

Ultra-Compact Portable Contact Smart Card Reader



CAC and PIV-approved PC-linked USB contact smart card readers secure data on-the-go.

The MCR3501 is the ideal smart card reader family 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, SCR3500 works seamlessly with virtually all contact smart cards and PC operating systems. Full support and compliance to EMV 2011 and GSA FIPS 201 expands daily use to very specific applications requiring additional security and data protection.

With its ultra-compact yet reliable design and mechanical functionality, MCR3501 is the ideal travel companion for mobile users requiring the same level of data protection 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 easily supports all major contact smart cards. The Identiv driver platform and Windows® Plug-and-Play driver support allow seamless integration into any end-user environment with very little or no administration. Experience 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

Convenient

- Ultra-compact and robust, designed for easy and ergonomic operation in limited space environments

Supports All Applications

- Supports ISO/IEC 7816 ID1 contact smart cards & ISO/IEC 7816 ID-4 contact smart cards

Interoperable

- Supports major contactless card ICs, standards, and technologies

Fast

- Transaction time optimized for maximum end-user acceptance

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	<ul style="list-style-type: none"> • 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 of ID-4
Contact Type	<ul style="list-style-type: none"> • 8 pin ID-1 Sliding Contact Socket or 6 pin ID-4 • C4/C8 support • Card present switch
Driver and Software	
PC/SC Driver	PC/SC Specification Ver. 2.01.14 for: <ul style="list-style-type: none"> • 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 4.0 and higher
Software	<ul style="list-style-type: none"> • 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)	49 x 22x 13.5mm
Weight	15g ± 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 C connector
Status Indicator	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