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™



Host Interface	Parameter	Details
Supported Standards Supported Tag ICS All major 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 T=0, T=1, synchronous cards 12c and 3-wire Out 10 600 kbps (depending on card) - TA1=97 Smart Card Interface Speed Sy 3V, and 1.8V; ISO 7816 smart card Class A, B, and C Supported Smart Card Types Sy 3V, and 1.8V; ISO 7816 smart card Class A, B, and C Power to Smart Card Soma in class A; SSma in class B, 35ma in class C Smart Card Size ID-1 Card Size ID-1 Card Size ID-1 Contact Type PC/SC Specification Ver. 2.0.1.4 for: PC/SC Specification Ver. 2.0.1.4 for: PC/SC Driver PC/SC Specification Ver. 2.0.1.4 for: PC/SC Specification Ver. 2.0.1.4 for: PC/SC API - Android 8.0 and higher PC/SC API - Android 8.0 and higher PC/SC API - Card API (through wrapper on top of PC/SC) - M-Card API (through wrapper on top o	Host Interface	USB 2.0 CCID (USB 1.1/3.0 compliant)
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 12C and 3-wire **Up to 6000 kbps (depending on card) **I 14197 Smart Card Clock Frequency ISO/IEC 7816 compliant, Operates up to 16 MHz Supported Smart Card Types SV, 3V, and 18V, ISO 7816 smart card Class A, B, and C Power to Smart Card Office (Card present switch; Automatic power on/off; Short circuit protection Card Size ID-1 **Landing Contact Socket** **CARG support** **Driver and Software** **PC/SC Specification Ver. 20.1.4 for: **Windows** 7/8/10/11 (32 and 64 bit), Windows** Server 2008/2012/2016/2019, WindowsXP, **Android 8.0 and higher** **PC/SC API** **Android 8.0 and higher** **Offica API** (Ithrough wrapper on top of PC/SC) **Mac Ard PI** (Ithroug	Communication Speed	12 Mbps (USB 2.0 full speed)
Supported Tag ICS All major ISO/IEC 7816 compliant smart cards and synchronous cards Smart Card Protocols T=0, T=1, synchronous cards 12C and 3-wire - Up to 600 kbps (depending on card) - TA1=97 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 Sy 3y, and 1.8y, ISO 7816 smart card Class A, B, and C - Power to Smart Card - GomA in Class A, 55mA in Class B, 35mA in Class C Smart Card Detection Card Size ID-1 - Landing Contact Socket - C-4/C8 support - Card present switch - Uriver and Software - PC/SC Specification Ver. 20.11.4 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 3x, 4x, 5x (32 and 64 bit), - Android 8.0 and higher - PC/SC API - C-FAPI (through wrapper on top of PC/SC) - M-Card API (through wrapper on top of PC/SC) - M-Card API (through wrapper on top of PC/SC) - M-Card API (through smart card; <20mA with standard card; <500µA in standby mode Dimensions(1. x W x H) - Sp 5x 5x 85mm (with stand) - Weight - Operating Temperature Range - 20* to 60* C (4* to 140* F) - Operating Humidity Range - Up to 55% (Rith stand) - Operating Humidity Range - Up to 55% Rith non-condensing - Up to 55% Rith non-condensing - Up to 55% Rith stand) - Certifications / Compliance - Systems/Standards - ISO/IEC 7816, USB 2.0 Full Speed, CCID, Microsoft* WHQL		Support
Smart Card Protocols T=0, T=1, synchronous cards 12C and 3-wire * Up to 600 kbps (depending on card) ** 17A1=9 Smart Card Clock Frequency SUSO/EC 7816 compliant; Operates up to 16 MHz Supported Smart Card Types Sy, 3V, and 1.8V, 15O 7816 smart card (185s A, B, and C Power to Smart Card 60m A in Class A, 55m A in Class B, 35m A in Class C Smart Card Detection Card Detection Card Size ID-1 Contact Type **PC/SC Driver **PC/SC Specification Ver 2.01, 146 for: **Umidows** 7/8/10/11 (32 and 64 bit), Windows** Server 2008/2012/2016/2019, WindowsXP, **MacOS 1.0.9 x- 12.2.x, **Umiva Ze X, and 3x, 4x, 5x (32 and 64 bit), **Android 8.0 and higher **PC/SC API **C-TAPI (through wrapper on top of PC/SC) **M-Card API (through wrapper on top of PC/SC) **Derating Temperature Range **Operating Tempe	Supported Standards	ISO/IEC 7816 Part 1 to 4, EMV 2011 Ver 4.3 Level 1 (compliant)
Smart Card Interface Speed	Supported Tag ICs	All major ISO/IEC 7816 compliant smart cards and synchronous cards
Smart Card Clock Frequency Smart Card Clock Frequency SOJEC 7816 compliant; Operates up to 16 MHz Supported Smart Card Syes Sy, 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 Size Ob 1 Landing Contact Socket - CArCs Support - Card present switch, Automatic power on/off; Short circuit protection Card Size - Landing Contact Socket - CARCs Support - Card present switch - CARCs Support - Card present switch - PC/SC Specification Ver. 2.1.14 for: - Windows* 7/8/10/11 (32 and 64 bit), Windows* Server 2008/2012/2016/2019, Windows*P, - MacOS 10.9.x - 12.2.x, - Linux 2.6x, and 3.x, 4x, 5.x (32 and 64 bit), - Android 8.0 and higher - PC/SC API - CT-API (through wrapper on top of PC/SC) - M-Card API (through wrapper on t	Smart Card Protocols	T=0, T=1, synchronous cards I2C and 3-wire
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Smart Card Detection Card Size ID-1 Contact Type * Landing Contact Socket		
Contact Type - Landing Contact Socket - C4/C8 support - Card present switch - Card present switch - 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 - PC/SC API - CT-API (through wrapper on top of PC/SC) - M-Card API (thro	Power to Smart Card	
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Contact Type Card present switch 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, Inux 2.6 x, and 3. x, 4 x, 5. x (32 and 64 bit), Android 8.0 and higher PC/SC API CT-API (through wrapper on top of PC/SC) MC-Card API (through wrapper on top of PC/SC) MES Bus-powered Power Consumption CsmA 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 Hunidity Range Up to 95% RH non-condensing Durability Landing contact 300,000 card insertions 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	Card Size	ID-1
PC/SC Specification Ver. 2.01.14 for: 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 PC/SC API CT-API (through wrapper on top of PC/SC) W-Card API (through wrapper on top of PC/SC) Power Supply USB Bus-powered Power Consumption C6mA 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 (2* to 122* F) Storage Temperature Range 0* to 50* C (-4* to 140* F) Operating Humidity Range Up to 95% RH non-condensing Uprability 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	Contact Type	
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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	Storage Temperature Range	-20° to 60° C (-4° to 140° F)
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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	Durability	Landing contact 300,000 card insertions
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Firmware In-Field Upgradeable No Certifications / Compliance Systems/Standards ISO/IEC 7816, USB 2.0 Full Speed, CCID, Microsoft® WHQL	Status Indicator	Green LED
Certifications / Compliance Systems/Standards ISO/IEC 7816, USB 2.0 Full Speed, CCID, Microsoft® WHQL	Firmware	SmartOS™
Systems/Standards ISO/IEC 7816, USB 2.0 Full Speed, CCID, Microsoft® WHQL	Firmware In-Field Upgradeable	No
Systems/Standards ISO/IEC 7816, USB 2.0 Full Speed, CCID, Microsoft® WHQL		Certifications / Compliance
	Systems/Standards	