

Dual Interface Smart Card Reader DCR2100

General

DCR2100 is the ideal combination of contact, contactless technologies in just one single device. Supporting ISO/IEC 7816 contact and 13.56 MHz contactless cards, this PC - linked dual interface reader features end - user environments where virtually all kinds of credentials are being used even in mixed populations.

With its all-in-one concept the Dual Interface enables a smooth transition from well - established traditional technologies into emerging Information Security applications pushing new business.

It represents the perfect mix between modern stylish design and the ergonomic use of any credential form factor. The end user experiences convenience 、 transaction-time efficiency、 security、 flexibility, for use applications such as network log-on、 secure web-based transactions、 governmental use applications、 online tax declarations、 online games、 automatic control、 IoT.

Features

➤ User Convenience

Modern housing design optimized for easy and ergonomic operation even in limited space environments.

➤ Convergent

Prominent contact and contactless Dual-interface technologies for use with mixed credential populations.

➤ Interoperable

Supports major card ICs standards and technologies in just one device.

➤ Fast

Transaction time optimized with support of 848 kbps in ISO/IEC 14443 and 600 kbps in ISO/IEC 7816 for maximum end-user acceptance.

Specifications

Host Interface	USB 2.0 CCID (USB 1.1/3.0 compliant)
Communication Speed	12 Mbps (USB 2.0 full speed)
Contact card Supported Standards	Supported ISO/IEC 7816 Standards
Supported Tag ICs	All major ISO/IEC 7816 compliant Smart Card IC support
Smart Card Protocols	T=0, T=1
Smart Card Interface Speed	• Up to 600 kbps (depending on card) • TA1=97
Smart Card Clock Frequency	ISO/IEC 7816 compliant up to 5 MHz
Supported Smart Card Types	5V, 3V and 1.8V, ISO/IEC 7816 Class A/B/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
Smart Card Size	ID-1
Smart Contact Type	Support 6pin and 8pin Smart card (Contact Socket is 10pin with Card detection switch)
Contactless Supported Standards	ISO 14443 Type A&B
Protocols	T=CL
Supported Card Chips	• MIFARE™ (Classic, Ultralight, Ultralight C, MIFARE PLUS, DESFire, DESFire EV1 2/4/8k) • Type A&B CPU card
Data Transfer Rate	•Up to 70mm (depending on card chip type and card antenna size)
Antenna	Integrated
PC/SC Driver	PC/SC Specification Ver. 2.01.14 for: • Windows® 7 / 8 / 8.1 / 10 (32 and 64 Bit) • Windows® Server 2003/2008/2012 • MacOS 10.10.x, 10.11.x, 10.12.x • Linux 2.6.x (32 and 64 Bit), 3.x • Android 2.6.x (or above)
Software	• PC/SC API • CT-API (through wrapper on top of PC/SC for Windows) • M-Card API (through wrapper on top of PC/SC for Windows)
Power Supply	Bus-powered USB
Power Consumption	<220mA, excluding smart card; < 400mA, with smart card; < 600μA in Standby Mode
Dimensions	103 * 68 * 16mm
Weight	126 g ± 5%
Operating Temperature Range	-10° to 70°C
Storage Temperature Range	-25° to 85 C
Operating Humidity Range	Up to 95% RH non-condensing
Durability	Sliding Contact 100,000 card insertions
MTBF	~ 4M hours
Connector	1.5m USB Cable with USB Type A Connector
Status Indicator	2 * LED (Green and Red)
Firmware	Smart OS™
Firmware In-Field Upgradeable	Yes
Systems/Standards	ISO/IEC 7816, USB 2.0 Full Speed, CCID,

Picture

