MCR2100

Dual interface smart card reader/writer



MCR2100 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......

User Convenience

 Modern 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

MARKLAND DATA SHEET

Dual Interface Smart Card Reader/Writer

USB 2.0 CCID (USB 1.1/3.0 compliant)
12 Mbps (USB 2.0 full speed)
Support
ISO/IEC7816, ISO/IEC14443 A&B
Contact Smart Card Interface
All major ISO/IEC 7816 compliant Smart Card IC support
T=0, T=1
Up to 600 kbps (depending on card) TA1=97
ISO/IEC 7816 compliant up to 5 MHz; Operates up to 12 MHz
ISO/IEC 7816 voltage classes A/B/C (5V, 3.3V, 1.8V)
60mA in Class A; 55mA in Class B; 35mA in Class C
Card present switch; Automatic power on/off; Short circuit protection
ID-1
ID-1 Sliding Contact Socket (8 pin)
Sliding Contact 100,000 card insertions
Contactless Smart Card Interface
ISO/IEC 14443 A&B Part 1 - 4
T=CL
MIFARE [®] Classic Family, MIFARE Ultralight Family, MIFARE Plus Family, MIFARE DESFire Family, FeliCa™, NFC Forum Tag types 1/2/3/4
106/212/424/848 kbits/s, depending on card IC
Integrated
Driver and Software
 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 (through wrapper on top of PC/SC)
Operating Conditions
USB Bus-powered
<220 mA, excluding smart card; < 400 mA, with smart card; < 600 μA in Standby Mode
103 x 67.5 x 15 mm
95 g ± 5%
0° to 50° C (32° to 122° F)
-25° to 85° C (-13° to 185° F)
Up to 95% RH non-condensing
1.5m USB cable with USB type A connector
Dual color LED
SmartOS™
Yes
Certifications / Compliance
ISO/IEC 7816, ISO/IEC 14443, USB 2.0 Full Speed, CCID, Microsoft® WHQL
CE, RoHS

*TECHNICAL DATA IS SUBJECT TO CHANGE WITHOUT NOTICE.