

ACR1281U-C1

Dual Interface Reader



Specification

Physical Characteristics

Dimensions	120.5 mm (L) × 72 mm (W) × 20.4 mm (H)
Weight.....	140 g
Colors.....	Black

USB Host Interface

Protocol.....	USB CCID
Connector Type.....	Standard Type A
Power Source.....	From USB port
Speed.....	USB Full Speed (12 Mbps)
Supply Voltage.....	5 V
Supply Current	Max. 200 mA
Cable Length.....	2.0 m, Fixed

Contactless Smart Card Interface

Standard	ISO 14443 A and B Parts 1-4
Protocol.....	ISO 14443 T=CL for ISO 14443-4-compliant cards
.....	T=CL Emulation for MIFARE Classic
Operating Frequency	13.56 MHz
Operating Distance	Up to 50 mm (depending on tag type)
Smart Card Read/Write Speed.....	106 Kbps, 212 Kbps, 424 Kbps, 848 Kbps
Antenna Size.....	65 mm × 60 mm

Contact Smart Card Interface

Number of Slot	1 Full-sized Card Slot
Standard	ISO 7816 Parts 1-4, Class A, B, C (5 V, 3 V, 1.8 V)
Protocol.....	T=0; T=1; Memory Card Support

Supply Current Max. 50 mA
Smart Card Read/Write Speed..... 9.6 Kbps – 600 Kbps
Short Circuit Protection (+5) V/GND on all pins
Clock Frequency 4.8 MHz
Card Connector Type..... Contact
Card Insertion Cycles..... Min. 100,000

SAM Card Interface

Number of Slot 1 Standard SIM-sized Card Slot
Standard ISO 7816, Class A (5 V)
Protocol..... T=0; T=1
Card Connector Type..... SAM Slot 0: Contact

Built-in Peripheral

LED..... 2 single-color: Red and Green
Buzzer..... Monotone

Other Features

Firmware Upgrade Supported

Application Programming Interface

PC-linked Mode..... PC/SC
..... CT-API (through wrapper on top of PC/SC)

Operating Conditions

Temperature 0 °C – 60 °C
Humidity Max. 90% (non-condensing)
MTBF 500,000 hrs

Certifications/Compliance

ISO 7816, ISO 14443, USB Full Speed, PC/SC, CCID, CE, FCC, RoHS, REACH Microsoft® WHQL

Device Driver Operating System Support

Windows® XP, Windows® Vista™, Windows® 7, Windows® 8, Windows® 8.1, Windows® 10, Windows® Server 2003, Windows® Server 2008, Windows® Server 2008 R2, Windows® Server 2012, Windows® Server 2012 R2, Windows® Server 2016 Linux®, Mac OS®, Solaris, Android™ 3.1 and later

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