

ACR3901U-S1

Bluetooth® Contact Card Reader



Specification

Physical Characteristics

Dimensions	94 mm (L) × 60 mm (W) × 12 mm (H)
Weight.....	30.8 g (59.7 g with cable ± 5 g tolerance)
Colors.....	Gray, White

USB Host Interface

Protocol.....	USB CCID
Connector Type.....	Micro-USB
Power Source.....	From USB port
Speed.....	USB Full Speed (12 Mbps)
Supply Voltage.....	5 V
Cable Length.....	1 m, Detachable

Bluetooth Interface

Protocol.....	Bluetooth (Bluetooth Low Energy/Bluetooth 4.0)
Power Source.....	Rechargeable Lithium-ion
Speed.....	1 Mbps

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

Built-in Peripheral

LED..... 3 single-color: Red, Blue, and Green

Other Features

Encryption In-device AES-128 Encryption Algorithm
Firmware Upgrade Supported (upgradeable through USB interface)

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 400,000 hrs

Certifications/Compliance

EN 60950/IEC 60950, ISO 7816, USB Full Speed, Bluetooth, EMV™ Level 1 (Contact), PC/SC, CCID, CE, FCC, RoHS, REACH, VCCI (Japan), MIC (Japan), Microsoft® WHQL

Device Driver Operating System Support

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®, Android™5, iOS



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.....	4.80 MHz
Card Connector Type.....	ICC Slot 0: Contact
Card Insertion Cycles.....	Min. 100,000

Built-in Peripheral

LED..... 3 single-color: Red, Blue, and Green

Other Features

Encryption..... In-device AES-128 Encryption Algorithm
Firmware Upgrade

Application Programming Interface

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

Operating Conditions

Temperature

Certifications/Compliance

EN 60950/IEC 60950, ISO 7816, USB Full Speed, Bluetooth, EMV™ Level 1 (Contact), PC/SC, CCID, CE, FCC, RoHS, REACH, VCCI (Japan), MIC (Japan), Microsoft® WHQL

Device Driver Operating System Support

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®, Android™⁵, iOS⁶



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⁴ Recommended Charging Temperature: 0 °C – 45 °C
⁵ 4.3 and later Android versions is required for Bluetooth 4.0
⁶ 8.0 and later iOS versions is required