

# ACR1252U

## USB NFC Reader III



## Specification

### Physical Characteristics

Dimensions .....	98.0 mm (L) × 65.0 mm (W) × 12.8 mm (H)
Weight.....	81 g
Color .....	Matte 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.....	1.0 m, Fixed

### Contactless Smart Card Interface

Standard .....	ISO/IEC 18092 NFC, ISO 14443 Type A & B, MIFARE, ..... FeliCa
Protocol.....	ISO 14443 T=CL for ISO 14443-4-compliant cards ..... T=CL Emulation for MIFARE Classic, ISO 18092, FeliCa ..... and NFC tags
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
Antenna Size.....	50 mm × 40 mm

### SAM Card Interface

Number of Slot ..... 1 Standard SIM-sized Card Slot  
Standard ..... ISO 7816, Class A (5 V)  
Protocol..... T=0; T=1  
Smart Card Read/Write Speed..... 9.6 Kbps – 215 Kbps  
Card Connector Type..... SAM Slot 0: Contact

### Built-in Peripheral

LED..... 1 bi-color: Red and Green  
Buzzer..... Monotone

### Application Programming Interface

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

### Other Feature

Firmware Upgrade ..... Supported

### Operating Conditions

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

### Certifications/Compliance

EN 60950/IEC 60950, ISO 18092, ISO 14443, ISO 7816 (SAM Slot), USB Full Speed, NFC Forum Certification, Felica Performance Certification, PC/SC, CCID, CE, FCC, RoHS, REACH J-LIS (Japan), VCCI (Japan), MIC (Japan), KC (Korea), Microsoft® WHQL

### Device Driver Operating System Support

Windows® CE 5.0, Windows® CE 6.0, Windows® Embedded Compact 7, Windows® XP, Windows® Vista™, Windows® 7, Windows® 8, Windows® 8.1, Windows® 10 Windows® Server 2003, Windows® Server 2003 R2, Windows® Server 2008, Windows® Server 2008 R2, Windows® Server 2012, Windows® Server 2012 R2, Windows® 2016 Linux®, Mac OS®, Solaris, Android™ 3.1 and later

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