

# ACR1255U-J1

## Bluetooth® NFC Reader



## Specification

### Physical Characteristics

Dimensions .....	85 mm (L) × 54 mm (W) × 10 mm (H)
Weight.....	37.5 g (74.1 g with cable ± 5 g tolerance)
Colors.....	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

### 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.....	45.60 mm × 42.00 mm

### Built-in Peripheral

LED..... 2 bi-color: Red and Blue, Red and Green  
Buzzer..... Monotone

### 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 14443, ISO 18092, USB Full Speed, Bluetooth, PC/SC, CCID, CE, FCC RoHS, REACH, VCCI (Japan), TELEC (Japan), BIS (India), 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

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