ACR123U

Intelligent Contactless Reader

Specification

Physical Characteristics	
Dimensions	Main Body: 159 mm (L) × 100 mm (W) × 21 mm (H)
	With Stand: 177.4 mm (L) × 100.0 mm (W) × 94.5 mm (H)
Weight	Main Body: 281 g
	With Stand: 506 g
Color	Black

Processor	
Core	ARM 32-bit Cortex-M3 CPU

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	1.5 m, Fixed

Contactless Smart Card Interface	
Standard	ISO 14443-4 Type 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	75 mm × 75 mm

SAM Card Interface

Number of Slots .... 3 Standard SIM-sized Card Slots
Standard .... ISO 7816, Class A, B, C (5 V, 3 V, 1.8 V)
Protocol.. T=0; T=1
Smart Card Read/Write Speed....... 9.6 Kbps – 344 Kbps
Card Connector Type.................... SAM Slot 0: Contact
.... SAM Slot 1: Contact
.... SAM Slot 2: Contact

Built-in Peripheral

LCD.. Graphic LCD with white backlight
.... 128 pixels × 64 pixels
.... Number of characters: 16 characters × 8 lines
LED.. 4 single-color: Blue, Yellow, Green, and Red
Speaker.. Audio tone indication
Tapping Region............................ Tri-color backlight: Red, Green and Blue

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 .... 240,000 hrs

Certifications/Compliance

ISO 14443, ISO 7816 (SAM Slot), PC/SC, CCID, CE, FCC, RoHS, REACH VCCI (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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