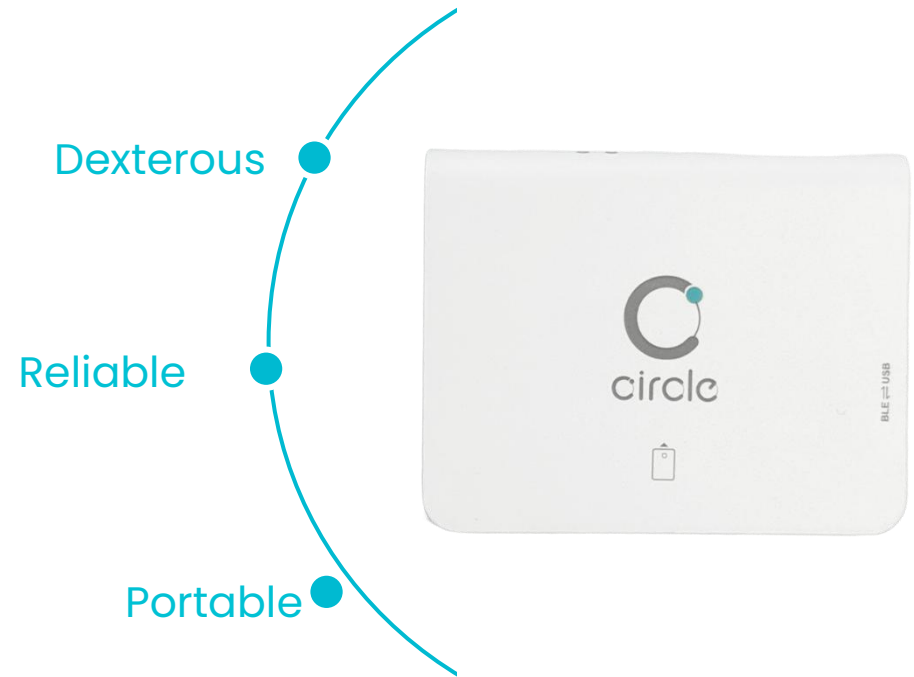


CIR515A

Bluetooth® Contact Smart Card Reader

CIR515A Bluetooth® Contact Smart Card Reader combines secure smart card authentication with Bluetooth® wireless connectivity. It is well suited for identity verification applications in government offices, healthcare facilities, financial institutions, and customer service environments where users are required to present and insert smart cards for authentication. The wireless design offers greater flexibility in reader placement, while support for both USB Type-A and USB Type-C connectivity ensures compatibility with a wide range of host devices.

- Support Bluetooth® 5.0
- Supports ISO/IEC 7816 Part 1/2/3/4 standard
- Supports full-sized ISO/IEC 7816 Class A/ B/ C cards with T=0 or T=1 protocol and J-LIS cards
- Supports extended APDU
- Complies with CCID standard
- Conforms to PC/SC specifications
- Firmware upgradeable
- Works on different operating systems



Accessories

- 1m detachable 2-in-1 USB Type A/C (Male) to Type C (Male) USB cable



CIR515A

Bluetooth® Contact Smart Card Reader

Contact Smart Card Interface

Standard	ISO/IEC 7816 Part 1/2/3/4
Protocol	T=0, T=1
Supported Card Types	ISO/IEC 7816 Class A/ B/ C (5V/ 3V/ 1.8V) cards
Supported Card Size	ID-1 (Full size)
Supply Current	60 mA @5V, 50mA @ 3V and 30mA @1.8V
Speed	9.6 – 826 kbps
Short Circuit Protection	Support
Clock Frequency	Up to 16 MHz (Default: 4.8 MHz)
Card Connector	Sliding, Min. 100,000 insertion cycles
Extended APDU	Support

Physical Characteristics

Dimensions	60.0 mm (L) x 75.0 mm (W) x 12.0 mm (H)
Weight	50.0 g (± 5 g)
Casing	White ABS

Host Interface

Bluetooth® Standard	BLE 5.0 (2 Mbps)
USB Standard	USB 2.0 Full Speed (12 Mbps)
USB Connector Type	Type C (Female)
USB Cable	1m, Detachable USB Cable

Power

Supply Voltage	USB Bus-powered (DC 5V)
USB Rated Current	<500 mA (Operating)
Battery	3.7V 300mAh Rechargeable Lithium-ion Battery (charged via USB)
Current Consumption	<300 mA (Operating)

Human Interface

LED	3 x LEDs: Red & Green (Power), Blue (Operation Status), Blue & Green (Mode)
Tactile Switch	2 x Switches: Power button, Mode button

Software and Driver

Firmware Upgradeable	Support, via USB
Communication Channel	Bluetooth® Mode: AES-128 Encryption Algorithm (CBC Ciphering Mode)
Encryption	
Driver	USB Mode: CCID; Bluetooth® Mode: Proprietary
Application Programming Interface (API)	USB Mode: PC/SC; Bluetooth® Mode: Proprietary

Operating Conditions

Operating Temperature	0 – 55 °C ¹
Operating Humidity	Max. 85% (non-condensing)
Storage Temperature	–20 – 60 °C
Meantime Between Failure (MTBF)	500,000 hours

Compliance/ Certifications

Standards/ Systems	ISO/IEC 7816, USB 2.0 Full Speed, CCID, Microsoft® WHQL, Bluetooth® 5.0
Regulatory/ Environmental	EN 62368, EN18031-1, CE, FCC, UKCA, VCCI, MIC, BQB, TELEC, RoHS3, REACH

Operational Environment

Supported Operating Systems	USB Mode: Windows® 7 SP1 and above (including Windows® 11 ARM), Linux®, macOS® 10.12 and above, Android™ 6.0 and above, iOS 16/ iPadOS 16.1 and above (via Apple CryptoTokenKit – Swift sample code available) Bluetooth® Mode: Windows® 10 and above (including Windows® 11 ARM), Android™ 6.0 and above, iOS 11.0 and above, iPadOS 13.1 and above, macOS 12.5 and above
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Ordering Information

Product Code	CIR515A-03: 2-in-1 USB Type A/C (Male) to Type C (Male) Cable
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¹ Optimal battery charging temperature: 0°C to 40°C