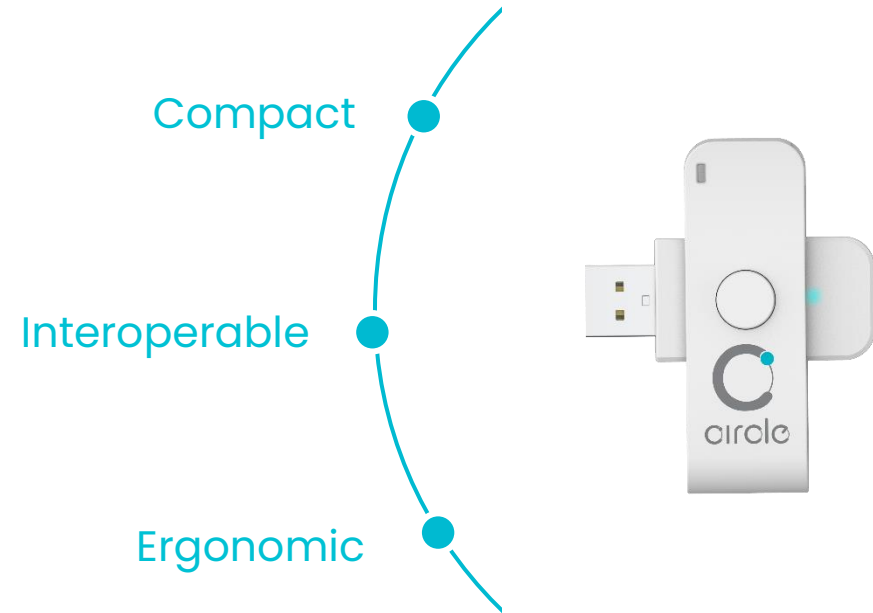# CIR115C

Contact Smart Card Reader

CIR115C Contact Smart Card Reader transforms from a dongle into a full-sized smart card reader in a single swivel. With CIR115 powerful core, it realises fast and secure data transmission for various smart card applications, such as access control, e-government, e-healthcare and network log-on.

Compact

Interoperable

Ergonomic

- 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, J-LIS cards, CAC, PIV and memory cards
- Supports extended APDU
- Supports 400,000 usage cycles
- Complies with CCID standard
- Conforms to PC/SC specifications
- Works on different operating systems
- Optional connector types: USB A or USB C

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, J-LIS cards, Memory cards, Common Access Card (CAC), Personal Identity Verification (PIV)
Supported Card Size	1 Full-sized card slot[1]
Supply Current	55 mA in Class A/ B/ C
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
Protocol and Parameters Selection (PPS)	Support

Physical Characteristics

Dimensions	59.1 mm (L) x 20.6 mm (W) x 12.8 mm (H)
Weight	10.8 g (± 0.5 g)
Casing	White ABS

Host Interface

Power Supply	USB Bus-powered
Current Consumption	<100 mA (Operating), <2 mA (Standby)
USB Standard	USB 2.0 Full Speed (12 Mbps)
USB Connector Type	Default: Type A Optional: Type C

Human Interface

LED	1 LED: Blue

Software and Driver

Driver	CCID
Application Programming Interface (API)	Support, PC/SC & CT-API (through PC/SC)

Operating Conditions

Operating Temperature	0 – 65 ºC
Operating Humidity	Max. 95% (non-condensing)
Storage Temperature	-10 – 70 ºC
Meantime Between Failure (MTBF)	600,000 hours (Min. 400,000 usage cycles)

Compliance/ Certifications

Standards/ Systems	ISO/IEC 7816, EMVCo Contact Terminal Level 1, USB 2.0 Full Speed, CCID, Microsoft® WHQL
Regulatory/ Environmental	EN 62368, CE, FCC, VCCI, RoHS3, REACH, TAA (Optional)

Operational Environment

Supported Operating Systems	Windows® 7 SP1 and above, Linux®, macOS® 10.12 and above, Android™ 6.0 and above

Ordering Information

Product Code	CIR115C-01: USB Type A Connector (Standard) CIR115C-02: USB Type C Connector

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[1] Supports integrated anti-collision