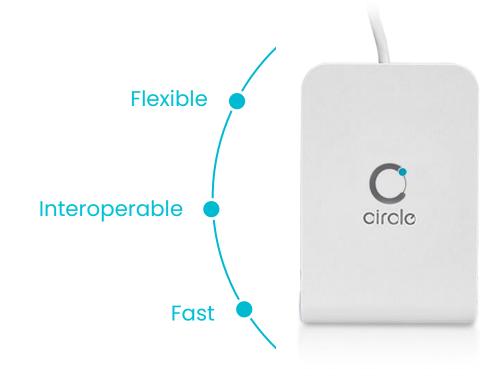


## **CIR315A**

## **Contactless Smart Card Reader**

CIR315A Contactless Smart Card Reader is a perfect choice for comprehensive contactless applications utilizing secure access module for contactless applications such as e-government, access control, network log-on, transportation and payment.

- Supports ISO/IEC 14443, ISO/IEC 18092 and ISO/IEC 15693 standards
- Supports ISO/IEC 14443-4 Type A & B cards, ISO/IEC 15693-3 cards, MIFARE<sup>®</sup> series, FeliCa, J-LIS cards, Calypso and NFC Forum Type 1/2/3/4/5 Tags
- Supports 1 x ISO/IEC 7816 Part 3/4 SAM slot (Optional)
- Supports extended APDU
- Complies with CCID standard
- Conforms to PC/SC specifications
- Firmware upgradable
- Works on different operating systems
- Optional connector types: USB A or USB C



## Accessories (Add-ons)

- Card Holder
- Reader Stand





Contactless Smart Card Interface		Human Interface	
Standard	ISO/IEC 14443, ISO/IEC 18092, ISO/IEC 15693	LED	2 LEDs: 1 Blue (Operation Status), 1 Green (Power)
Protocol	T=CL (translated to T=1 for PC/SC compliance)	Buzzer	Monotone
Operating Frequency	13.56 Mhz	Software and Driver	
Supported Card Types	ISO/IEC 14443-4 Type A & B Cards, ISO/IEC 15693-3	Firmware Upgradeable	Support, via USB
	Cards, MIFARE® series: Classic/ Plus/ Ultralight/	Driver	CCID
	Ultralight C/ DESFire/ DESFire EV1/ DESFire EV2, etc.	Application Programming	PC/SC
	FeliCa (Standard/ Lite/ Plug), Calypso, J-LIS Cards,	Interface (API)	
	NFC Forum Type 1/2/3/4/5 Tags	Operating Conditions	
Speed	106/ 212/ 424/ 848 kbps (Default: 424 kbps)	Operating Temperature	-10 °C – 70 °C
Reading Distance	Up to 50 mm (depending on tag type)	Operating Humidity	Max. 95% (non-condensing)
Extended APDU	Support	Storage Temperature	−20 °C − 70 °C
SAM Card Interface		Meantime Between Failure	600,000 hours
Standard	ISO/IEC 7816 Part 3/4	(MTBF)	
Protocol	T=0, T=1	Compliance/ Certifications	
Supported Card Types	ISO/IEC 7816 Class A (5V) cards	Standards/ Systems	ISO/IEC 14443, ISO/IEC 18092, ISO/IEC 15693,
Supported Card Size	ID-000 (SIM size)		ISO/IEC 7816 (SAM slot), USB 2.0 Full Speed, CCID,
Speed	9.6 – 125 kbps		Microsoft <sup>®</sup> WHQL
Clock Frequency	4.0 MHz	Regulatory/ Environmental	EN 62368, BSEN 62368, CE, FCC, UKCA, VCCI, MIC,
Physical Characteristics			RoHS3, REACH
Dimensions	98.0 mm (L) x 66.0 mm (W) x 11.0 mm (H)	Operational Environment	
Weight	81.0 g (± 5 g)	Supported Operating	Windows® 7 SP1 and above, Linux®,
Casing	White and Grey ABS	Systems	macOS® 10.12 and above, Android™ 6.0 and above
Host Interface		Ordering Information	
Power Supply	USB Bus-powered	Product Code	CIR315A-01: USB Type A Connector, with SAM slot
Current Consumption	<250 mA (Operating)		(Standard)
	<50 mA (Standby)		CIR315A-02: USB Type A Connector, without SAM slot CIR315A-03: USB Type C Connector, with SAM slot
USB Standard	USB 2.0 Full Speed (12 Mbps)		CIR315A-03: USB Type C Connector, with SAM slot CIR315A-04: USB Type C Connector, without SAM slot
USB Connector Type	Default: Type A; Optional: Type C	Accessories (Add-ons)	10-100149: Card Holder
USB Cable	lm		10-100150: Reader Stand