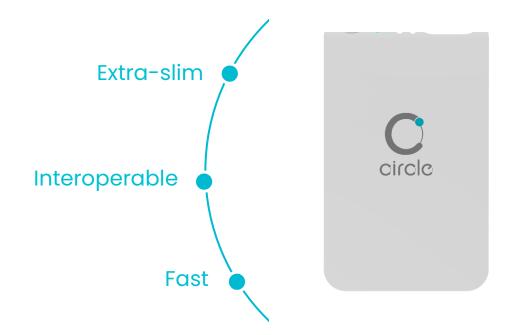


## **CIR415A**

## Bluetooth® Contactless Smart Card Reader

CIR415A Bluetooth® Contactless Smart Card Reader combines the latest Bluetooth® and contactless technologies to offer you an ideal solution for wireless contactless applications.

- Supports Bluetooth® 5.0
- Supports ISO/IEC 14443 Type A & B, ISO/IEC 18092 and ISO/IEC 15693 standards
- Supports ISO/IEC 14443-4 Type A & B cards,
  ISO/IEC 15693-3 cards, MIFARE® 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
- A transparent card holder is included







Contactless Smart Card	Interface	Human Interface	
Standard	ISO/IEC 14443 Type A & B, ISO/IEC 18092, ISO/IEC 15693	LED	3 LEDs: Blue (Operation Status),
Protocol	T=CL (translated to T=1 for PC/SC compliance)	LLD	Blue & Green (Mode), Red & Green (Power)
	•	Duzzor	
Operating Frequency	13.56 Mhz	Buzzer	Monotone
Supported Card Types	ISO/IEC 14443-4 Type A & B Cards, ISO/IEC 15693-3 Cards,	Software and Driver	0 1 1 100
	MIFARE® series: Classic/ Plus/ Ultralight/ Ultralight C/ DESFire/	Firmware Upgradeable	Support, via USB
	DESFire EV1/ DESFire EV2, etc, FeliCa (Standard/ Lite/ Plug),	Communication Channel	Bluetooth® Mode: AES-128 Encryption Algorithm
	Calypso, J-LIS Cards, NFC Forum Type 1/2/3/4/5 Tags	Encryption	(CBC Ciphering Mode)
Speed	106/212/424/848 kbps (Default: 424 kbps)	Driver	USB Mode: CCID; Bluetooth® Mode: Proprietary
Reading Distance	Up to 50 mm (depending on tag type)	Application Programming	USB Mode: PC/SC; Bluetooth® Mode: Proprietary
Extended APDU	Support	Interface (API)	
SAM Card Interface		Operating Conditions	
Standard	ISO/IEC 7816 Part 3/4	Operating Temperature	0 – 60 $^{\circ}\mathrm{C}$ (not charging); 0 – 45 $^{\circ}\mathrm{C}$ (charging)
Protocol	T=0, T=1	Operating Humidity	Max. 85% (non-condensing)
Supported Card Types	ISO/IEC 7816 Class A (5V) cards	Storage Temperature	-20 °C − 65 °C
Supported Card Size	ID-000 (SIM size)	Meantime Between Failure	500,000 hours
Speed	9.6 – 125 kbps	(MTBF)	
Clock Frequency	4.0 MHz	Compliance/ Certifications	
Physical Characteristics		Standards/ Systems	ISO/IEC 14443, ISO/IEC 18092, ISO/IEC 15693,
Dimensions	With cardholder: 96.1 mm (L) x 64.1 mm (W) x 8.9 mm (H)		ISO/IEC 7816 (SAM slot), USB 2.0 Full Speed, CCID,
	Without cardholder: 94.7 mm (L) x 60.0 mm (W) x 6.0 mm (H)		Microsoft® WHQL, Bluetooth® 5.0 specification
Weight	34.0 g (± 5 g)	Regulatory/ Environmental	EN 62368, CE, FCC, VCCI, MIC, BQB, TELEC, ROHS3, REACH
Casing	White PC & Transparent ABS	Operational Environment	
Host Interface		Supported Operating	USB Mode: Windows® 7 SP1 and above, Linux®,
Power Supply	USB Bus-powered or 400 mAh	Systems	macOS® 10.12 and above, Android™ 6.0 and above
	Rechargeable Lithium-ion Battery (charged through USB)		Bluetooth® Mode: Android™ 6.0 and above,
Current Consumption	<500 mA (Operating)		iOS 10.0 and above
USB Standard	USB 2.0 Full Speed (12 Mbps)	Ordering Information	
USB Connector Type	Type C	Product Code	CIR415A-01: USB Type C (Female) Cable
USB Cable	1m, Detachable USB Type A to C Cable	Accessory	Transparent Card holder
Bluetooth® Standard	BT 5.0 BLE (2 Mbps)	,	•
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