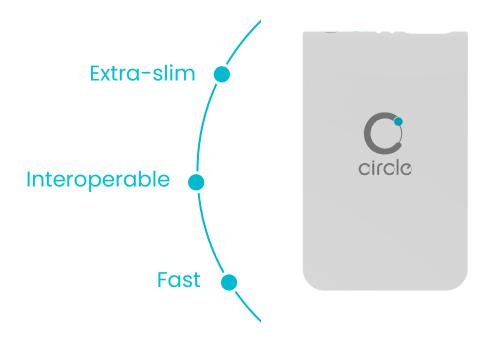


CIR415A

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, 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 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



Accessories

- Removeable card holder
- Im detachable USB cable







CIR415A Bluetooth® Contactless Smart Card Reader

DATA SHEET

Contactless Smart Card I	Interface	Huma
Standard	ISO/IEC 14443, ISO/IEC 18092, ISO/IEC 15693	LED
Protocol	T=CL (translated to T=1 for PC/SC compliance)	
Operating Frequency	13.56 Mhz	Buzzei
Supported Card Types	ISO/IEC 14443-4 Type A & B Cards, ISO/IEC 15693-3 Cards,	Tactile
	MIFARE® series: Classic/ Plus/ Ultralight/ Ultralight C/DESFire/	Softwo
	DESFire EV1/ DESFire EV2, etc, FeliCa (Standard/ Lite/ Plug),	Firmw
	Calypso, J-LIS Cards, NFC Forum Type 1/2/3/4/5 Tags	Comn
Speed	106/ 212/ 424/ 848 kbps (Default: 424 kbps)	Encry
Reading Distance	Up to 50 mm (depending on tag type)	Driver
Extended APDU	Support	Applic
SAM Card Interface Standard	ISO/IEC 7816 Part 3/4	Interfo
Protocol	T=0, T=1	Operc Operc
Supported Card Types	ISO/IEC 7816 Class A (5V) cards	Opero
Supported Card Size	ID-000 (SIM size)	Storag
Speed	9.6 – 125 kbps	Mean
Clock Frequency	4.0 MHz	(MTBF
Physical Characteristics		Comp
Dimensions	With Card Holder: 96.1 mm (L) x 64.1 mm (W) x 8.9 mm (H);	Stand
	Without Card Holder: 94.7 mm (L) x 60.0 mm (W) x 6.0 mm (H)	
Weight	34.0 g (± 5 g)	
Casing	Reader: White PC; Card Holder: Transparent ABS	Regul
Host Interface	DIF F 0 (0.44)	Opero
Bluetooth® Standard	BLE 5.0 (2 Mbps)	Suppo
USB Standard	USB 2.0 Full Speed (12 Mbps) Type C (Female)	Syster
USB Connector Type USB Cable	Im, Detachable USB Cable	
Power	III, Detachable 03b Cable	Order
Supply Voltage	USB Bus-powered (DC 5V)	Produ
USB Rated Current	<500 mA (Operating)	
Battery	3.7V 400mAh Rechargeable Lithium-ion Battery	
	(charged via USB)	
Current Consumption	<500 mA (Operating)	

Human Interface	
LED	3 x LEDs: Blue (Operation Status), Blue & Green (Mode), Red & Green (Power)
Buzzer	Monotone
Tactile Switch	2 x Switches: Power Button, Mode Button
Software and Driver	
Firmware Upgradeable Communication Channel Encryption Driver Application Programming Interface (API) Operating Conditions	Support, via USB Bluetooth® Mode: AES-128 Encryption Algorithm (CBC Ciphering Mode) USB Mode: CCID; Bluetooth® Mode: Proprietary USB Mode: PC/SC; Bluetooth® Mode: Proprietary
Operating Temperature Operating Humidity Storage Temperature Meantime Between Failure (MTBF)	0 – 60 °C (not charging); 0 – 45 °C (charging) Max. 85% (non-condensing) -20 °C – 65 °C 500,000 hours
Compliance/ Certifications	
Standards/ Systems	ISO/IEC 14443, ISO/IEC 18092, ISO/IEC 15693, ISO/IEC 7816 (SAM slot), USB 2.0 Full Speed, CCID, Microsoft® WHQL, Bluetooth® 5.0
Regulatory/ Environmental Operational Environment	EN 62368, CE, FCC, VCCI, MIC, BQB, TELEC, ROHS3, REACH
Supported Operating Systems	USB Mode: Windows® 7 SP1 and above, Linux®, macOS® 10.12 and above, Android™ 6.0 and above; Bluetooth® Mode: Windows® 10 and above, Android™ 6.0 and above, iOS 11.0 and above, iPadOS 13.1 and above
Ordering Information	
Product Code	CIR415A-01: USB Type A (Male) to Type C (Male) Cable, with SAM slot (Standard) CIR415A-02: USB Type A (Male) to Type C (Male) Cable, without SAM slot CIR415A-03: USB Type C (Male) to Type C (Male) Cable, with SAM slot CIR415A-04: USB Type C (Male) to Type C (Male) Cable, without SAM slot