

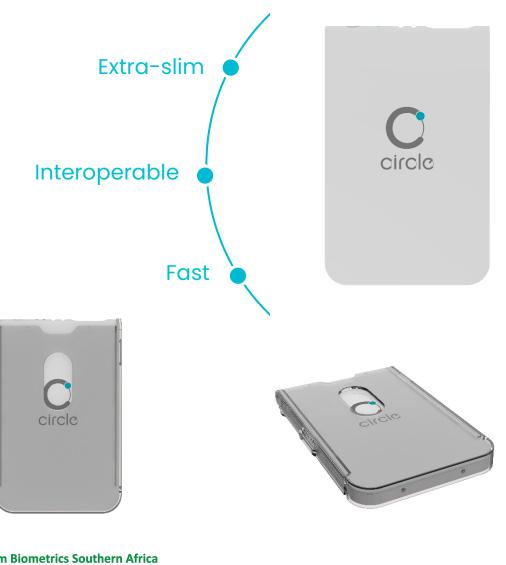
CIR415A

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 18092 NFC cards/ tags
- Supports ISO14443 Type A & B cards/ tags
- Supports ISO15693
- Supports MIFARE® families, FeliCa®
- Supports 1 x ISO7816 SAM slot
- 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





Fulcrum Biometrics Southern Africa

Block A, Regent Hill Office Park, Corner Leslie & Turley Roads, Lonehill, 2191, Sandton, Gauteng, South Africa +27 (0)11 702 8550 sales@fulcrumbiometrics.co.za www.fulcrumbiometrics.co.za





Contactless Smart Card Interface		Human Interface	
Standard	ISO/IEC 14443 Type A & B, ISO/IEC 18092, ISO/IEC 15693	LED	3 LED: Red & Green Bi-colour, Blue & Green Bi-colour, Blue
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/IEC14443-4 A & 4B Cards, ISO/IEC15693-3 Cards,	Firmware Upgradeable	Support, via USB
	MIFARE series: Classic/ PLUS/ Ultralight/ Ultralight C/	Communication	Bluetooth Mode: AES-128 Encryption Algorithm (CBC
	DESFire/ DESFire EV1/ DESFire EV2, etc, FeliCa (Standard/ Lite/	Channel Encryption	Ciphering Mode)
	Plug), Calypso, J-LIS Cards, NFC Forum Tag type 1/2/3/4/5	Driver	USB Mode: CCID; Bluetooth Mode: Proprietary
Speed	106/ 212/ 424/ 848kbps (Default: 424kps)	Application	USB Mode: PC/SC; Bluetooth Mode: Proprietary
Reading Distance	Up to 50 mm (depending on tag type)	Programming Interface	
Extended APDU	Support	(API)	
SAM Card Interface		Operating Conditions	
Standard	ISO/IEC7816 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/IEC7816 Class A(5V) cards	Storage Temperature	-20 °C – 65 °C
Supported Card Size	ID-000 (SIM size)	Meantime Between	500,000 hours
Speed	9.6– 125kbps	Failure (MTBF)	
Clock Frequency	4.0 MHz	Compliance/ Certifications	
Physical Characteristics		Standards/ Systems	ISO/IEC14443, ISO/IEC18092, ISO/IEC15693, ISO/IEC7816 (SAM
Dimensions	With cardholder: 96.1mm (L) x 64.1mm (W) x 8.9mm (H)		slot), USB 2.0 Full Speed, CCID, Microsoft® WHQL, Bluetooth
	Without cardholder: 94.7mm (L) x 60.0mm (W) x 6.0mm (H)		5.0 specification
Weight	34.0g (± 5 g)	Regulatory/	EN62368, CE, FCC, VCCI, MIC, BQB, TELEC, ROHS3, REACH
Casing	White PC & Transparent ABS	Environmental	
Host Interface		Operational Environment	
Power Supply	USB Bus-powered or 400 mAh Rechargeable Lithium-ion	Supported Operating	USB Mode: Windows® 7 SP1, 8, 10, Linux®, Mac OS®, Android™
	Battery (charged through USB)	Systems	Bluetooth Mode: Windows® 10, Mac OS®, Android™, iOS
Current Consumption	<500 mA (Operating)	Ordering Information	
USB Standard	USB 2.0 Full Speed (12 Mbps)	Produce Code	CIR415A-01: USB Type A to C Cable
USB Connector Type	Туре С	Accessory	Transparent Card holder
USB Cable	Im, Detachable USB Type A to C Cable		
Bluetooth Standard	BT 5.0 BLE (2 Mbps)		

© 2020 AB Circle Limited | All Rights Reserved