

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





DATA SHEET CIR415A Bluetooth® Contactless Smart Card Reader

Contactless Smart Card Interface		Human Interface	
Standard	ISO/IEC 14443, ISO/IEC 18092, ISO/IEC 15693	LED	3 x LEDs: Blue (Operation Status), Blue & Green (Mode),
Protocol	T=CL (translated to T=1 for PC/SC compliance)		Red & Green (Power)
Operating Frequency	13.56 Mhz	Buzzer	Monotone
Supported Card Types	ISO/IEC 14443-4 Type A & B Cards, ISO/IEC 15693-3 Cards,	Tactile Switch	2 x Switches: Power Button, Mode Button
	MIFARE® series: Classic/ Plus/ Ultralight/ Ultralight C/DESFire/	Software and Driver	
	DESFire EV1/ DESFire EV2, etc, FeliCa (Standard/ Lite/ Plug),	Firmware Upgradeable	Support, via USB
	Calypso, J-LIS Cards, NFC Forum Type 1/2/3/4/5 Tags	Communication Channel	Bluetooth [®] Mode: AES-128 Encryption Algorithm
Speed	106/ 212/ 424/ 848 kbps (Default: 424 kbps)	Encryption	(CBC Ciphering Mode)
Reading Distance	Up to 50 mm (depending on tag type)	Driver	USB Mode: CCID; Bluetooth® Mode: Proprietary
Extended APDU	Support	Application Programming	USB Mode: PC/SC; Bluetooth® Mode: Proprietary
SAM Card Interface		Interface (API)	
Standard	ISO/IEC 7816 Part 3/4	Operating Conditions	
Protocol	T=0, T=1	Operating Temperature	0 – 60 °C (not charging); 0 – 45 °C (charging)
Supported Card Types	ISO/IEC 7816 Class A (5V) cards	Operating Humidity	Max. 85% (non-condensing)
Supported Card Size	ID-000 (SIM size)	Storage Temperature	-20 °C − 65 °C
Speed	9.6 – 125 kbps	Meantime Between Failure	500,000 hours
Clock Frequency	4.0 MHz	(MTBF)	
Physical Characteristics		Compliance/ Certifications	
Dimensions	With Card Holder: 96.1 mm (L) x 64.1 mm (W) x 8.9 mm (H);	Standards/ Systems	ISO/IEC 14443, ISO/IEC 18092, ISO/IEC 15693,
	Without Card Holder: 94.7 mm (L) x 60.0 mm (W) x 6.0 mm (H)		ISO/IEC 7816 (SAM slot), USB 2.0 Full Speed, CCID,
Weight	34.0 g (± 5 g)		Microsoft® WHQL, Bluetooth® 5.0
Casing	Reader: White PC; Card Holder: Transparent ABS	Regulatory/ Environmental	EN 62368, CE, FCC, VCCI, MIC, BQB, TELEC, RoHS3, REACH
Host Interface		Operational Environment	LICD Mode, Windows® 7 CDI and above Linux®
Bluetooth® Standard	BLE 5.0 (2 Mbps)	Supported Operating	USB Mode: Windows® 7 SP1 and above, Linux®,
USB Standard	USB 2.0 Full Speed (12 Mbps) Type C (Female)	Systems	macOS® 10.12 and above, Android™ 6.0 and above;
USB Connector Type USB Cable	Im, Detachable USB Cable		Bluetooth® Mode: Windows® 10 and above, Android™ 6.0 and above, iOS 11.0 and above, iPadOS 13.1 and above
Power	III, Delachable osb Cable	Ordering Information	dha above, ios n.o ana above, iPados is.i ana above
Supply Voltage	USB Bus-powered (DC 5V)	Product Code	CIR415A-01: USB Type A (Male) to Type C (Male) Cable,
USB Rated Current	<500 mA (Operating)	Floadel Code	with SAM slot (Standard)
Battery	3.7V 400mAh Rechargeable Lithium-ion Battery		CIR415A-02: USB Type A (Male) to Type C (Male) Cable,
Dattery	(charged via USB)		without SAM slot
Current Consumption	<500 mA (Operating)		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