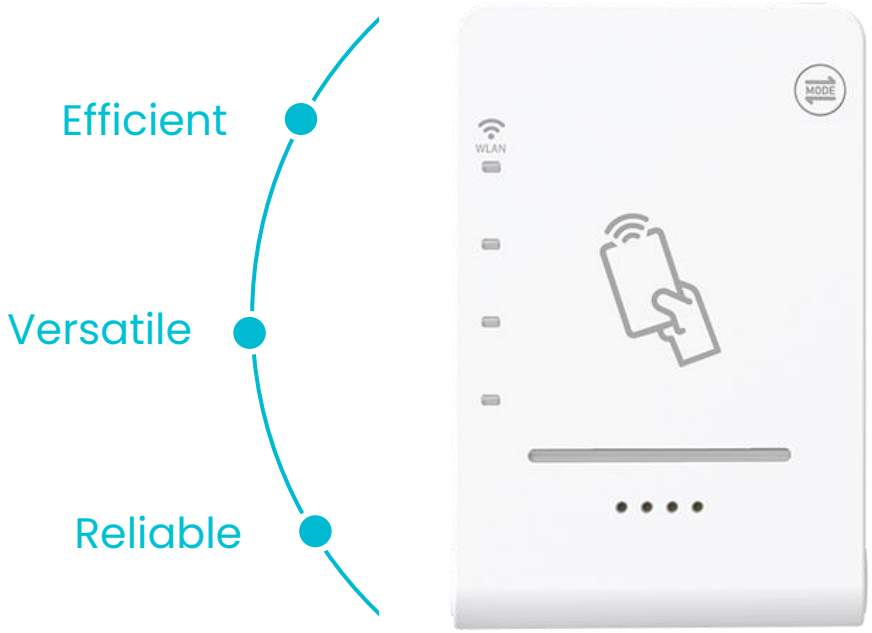
CIR715A

Ethernet Contactless Smart Card Reader



CIR715A Ethernet Contactless Smart Card Reader offers you an ideal ARM-based platform to develop and implement various applications by combining Ethernet and Wi-Fi connectivity with contactless card technologies. It is scalable and customizable by connecting different peripherals, e.g. PIN-pad and fingerprint scanner, for more comprehensive applications.

- Powered by ARM Cortex CPU and Linux operating system
- SDK available for secondary development
- Supports connectivity of 2 x Ethernet ports, Wi-Fi and USB Type A host
- 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
- Supports extended APDU
- Features a mode button and a 4-way DIP switch for manual setting adjustments
- Operating system and reader firmware upgradable

Accessories

- Power adapter plug
- 2m detachable power cable with a single screw lock
- PoE splitter (upon request)

DATA SHEET

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Ethernet Contactless Smart Card Reader

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System on Module (SoM)	
Processor	Quad-core ARM Cortex-A72 1.5GHz
Memory	1GB LPDDR4-3200 SDRAM with ECC (Minimum)
Storage	8GB of eMMC Flash memory (Minimum)
Operating System (OS)	Linux®, Network upgradable
Contactless Smart Card Interface	
Standard	ISO/IEC 14443, ISO/IEC 18092, ISO/IEC 15693
Protocol	T=CL (translated to T=1 for PC/SC compliance)
Operating Frequency	13.56 Mhz
Supported Card Types	ISO/IEC 14443-4 Type A & B Cards, ISO/IEC 15693-3 Cards, MIFARE® series: Classic/ Plus/ Ultralight/ Ultralight C/ DESFire/ DESFire EV1/ DESFire EV2, etc, FeliCa (Standard/ Lite/ Plug), Calypso, J-LIS Cards, NFC Forum Type 1/2/3/4/5 Tags
Speed	106/ 212/ 424/ 848 kbps (Default: 424 kbps)
Reading Distance	Up to 50 mm (depending on tag type)
Extended APDU	Support
Software Interface	PC/SC, CCID
SAM Card Interface	
Standard	ISO/IEC 7816 Part 3/4
Protocol	T=0, T=1
Supported Card Types	ISO/IEC 7816 Class A/ B/ C (5V/ 3V/ 1.8V) cards
Supported Card Size	ID-000 (SIM size)
Supply Current	60mA in Class A, 50mA in Class B and 30mA in Class C
Speed	9.6 – 826 kbps
Clock Frequency	Up to 16MHz (Default: 4.8 MHz)
Extended APDU	Support
Software Interface	PC/SC, CCID
Physical Characteristics	
Dimensions	129.9 mm (L) x 86.0 mm (W) x 23.1 mm (H)
Weight	With Power AC Adapter and Cable: 306g (± 5 g); Without Power AC Adapter and Cable: 163g (± 5 g)
Casing	White and Grey ABS

Connectivity	
Ethernet	2 x RJ45 ports: 1000M, 100M
Wi-Fi	2.4 GHz, 5.0 GHz, IEEE 802.11 b/g/n/ac
USB Host	Type A (Female), USB 2.0 Full Speed (12 Mbps)
Bluetooth®	BLE 5.0 (2 Mbps) (upon request)
Power Supply	
Power Input	DC 5V, 2.4A, USB Type C (Female), PoE (PoE splitter required)
Power Adapter	Input: AC 100-240V, US or Japan Type A plug [1]; Output: DC 5V, 2.4A (Minimum), USB Type A (Female)
Power Cable	2m, Detachable USB Type A (Male) to Type C (Male) Cable with a Single Screw Lock
Current Consumption	< 2.4 A (Operating)
Human Interface	
LED	1 x RGB LED stripe, 4 x RGB LEDs
Speaker	Mono audio
Tactile Switch	Mode button
DIP switch	4-way DIP switch
Peripheral	
Real Time Clock (RTC)	Support, with battery backup
Operating Conditions	
Operating Temperature	0 – 40 °C
Operating Humidity	Max. 85% (non-condensing)
Storage Temperature	0 °C – 55 °C
Meantime Between Failure (MTBF)	200,000 hours
Compliance/ Certifications	
Standards/ Systems	ISO/IEC 14443, ISO/IEC 18092, ISO/IEC 15693, ISO/IEC 7816, IEEE 802.3, IEEE 802.11 b/g/n/ac, Bluetooth® 5.0
Regulatory/ Environmental	CE, UKCA, VCCI, MIC, PSE, TELEC, RoHS3, REACH
Ordering Information	
Product Code	CIR715A-01: Type A Power Adapter (Standard)

[1] Other types of power adapter plugs are on request. (MOQ is required)