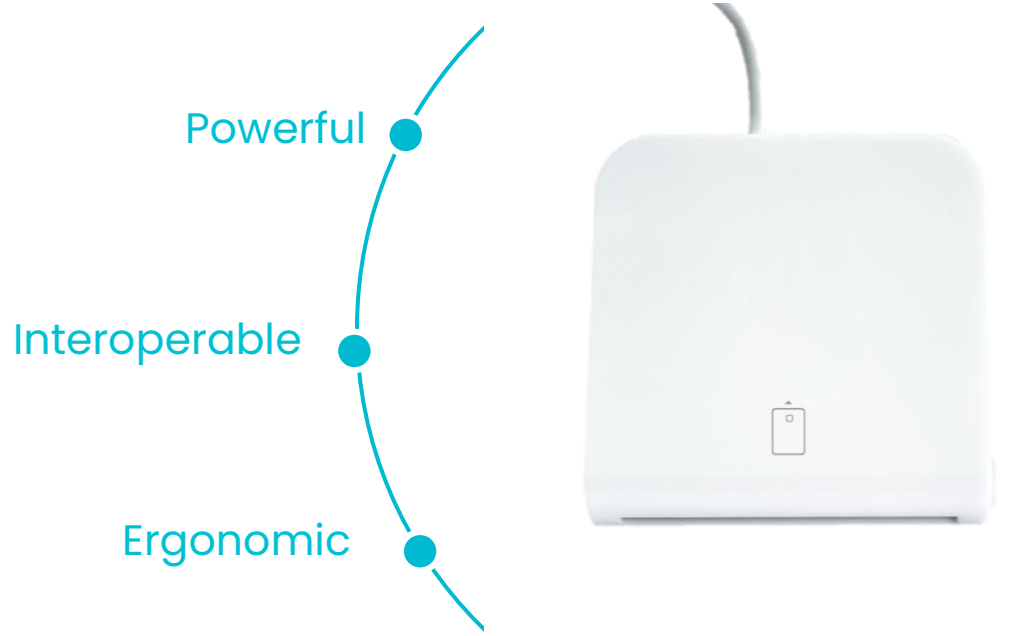# CIR125A

## Contact Smart Card Reader

CIR125A Contact Smart Card Reader is a compact contact smart card reader with powerful core and modern design to bring about fast and secure data transmission for various smart card applications, such as e-government, e-healthcare and network log-on.

- Supports ISO/IEC 7816 Part 1/2/3/4 standard
- Supports full-sized ISO/IEC 7816 Class A/ B/ C cards with T=0 or T=1 protocol, J-LIS cards and memory cards
- Supports extended APDU
- Complies with CCID standard
- Conforms to PC/SC specifications
- Firmware upgradable
- Works on different operating systems
- Optional connector types: USB A or USB C

Powerful

Interoperable

Ergonomic

## Contact Smart Card Interface

| | |
|---|---|
| Standard | ISO/IEC 7816 Part 1/2/3/4 |
| Protocol | T=0, T=1 |
| Supported Card Types | ISO/IEC 7816 Class A/ B/ C (5V/ 3V/ 1.8V) cards, J-LIS cards, Memory cards |
| Supported Card Size | ID-1 (Full size) |
| Supply Current | 55 mA in Class A/ B/ C |
| Speed | 9.6 – 826 kbps |
| Short Circuit Protection | Support |
| Clock Frequency | Up to 12 MHz (Default: 4.8 MHz) |
| Card Connector | Sliding, Min. 100,000 insertion cycles |
| Extended APDU | Support |

## Physical Characteristics

| | |
|---|---|
| Dimensions | 66.0 mm (L) x 66.0 mm (W) x 9.3 mm (H) |
| Weight | 48.3 g (± 5 g) |
| Casing | White and Grey ABS |

## Host Interface

| | |
|---|---|
| Power Supply | USB Bus-powered |
| Current Consumption | <100 mA (Operating), <2 mA (Standby) |
| USB Standard | USB 2.0 Full Speed (12 Mbps) |
| USB Connector Type | Default: Type A, Optional: Type C |
| USB Cable | 1m |

## Human Interface

| | |
|---|---|
| LED | 2 LEDs: 1 Blue (Operation Status), 1 Green (Power) |

## Software and Driver

| | |
|---|---|
| Firmware Upgradable | Support, via USB |
| Driver | CCID |
| Application Programming Interface (API) | PC/SC |

## Operating Conditions

| | |
|---|---|
| Operating Temperature | 0 – 65 ºC |
| Operating Humidity | Max. 95% (non-condensing) |
| Storage Temperature | -10 – 70 ºC |
| Meantime Between Failure (MTBF) | 600,000 hours |

## Compliance/ Certifications

| | |
|---|---|
| Standards/ Systems | ISO/IEC 7816, USB 2.0 Full Speed, CCID, Microsoft® WHQL |
| Regulatory/ Environmental | EN 62368, BSEN 62368, CE, UKCA, FCC, VCCI, RoHS3, REACH |

## Operational Environment

| | |
|---|---|
| Supported Operating Systems | Windows® 7 SP1 and above, Linux®, macOS® 10.12 and above, Android™ 6.0 and above |

## Ordering Information

| | |
|---|---|
| Product Code | CIR125A-01: USB Type A Connector (Standard) CIR125A-02: USB Type C Connector |