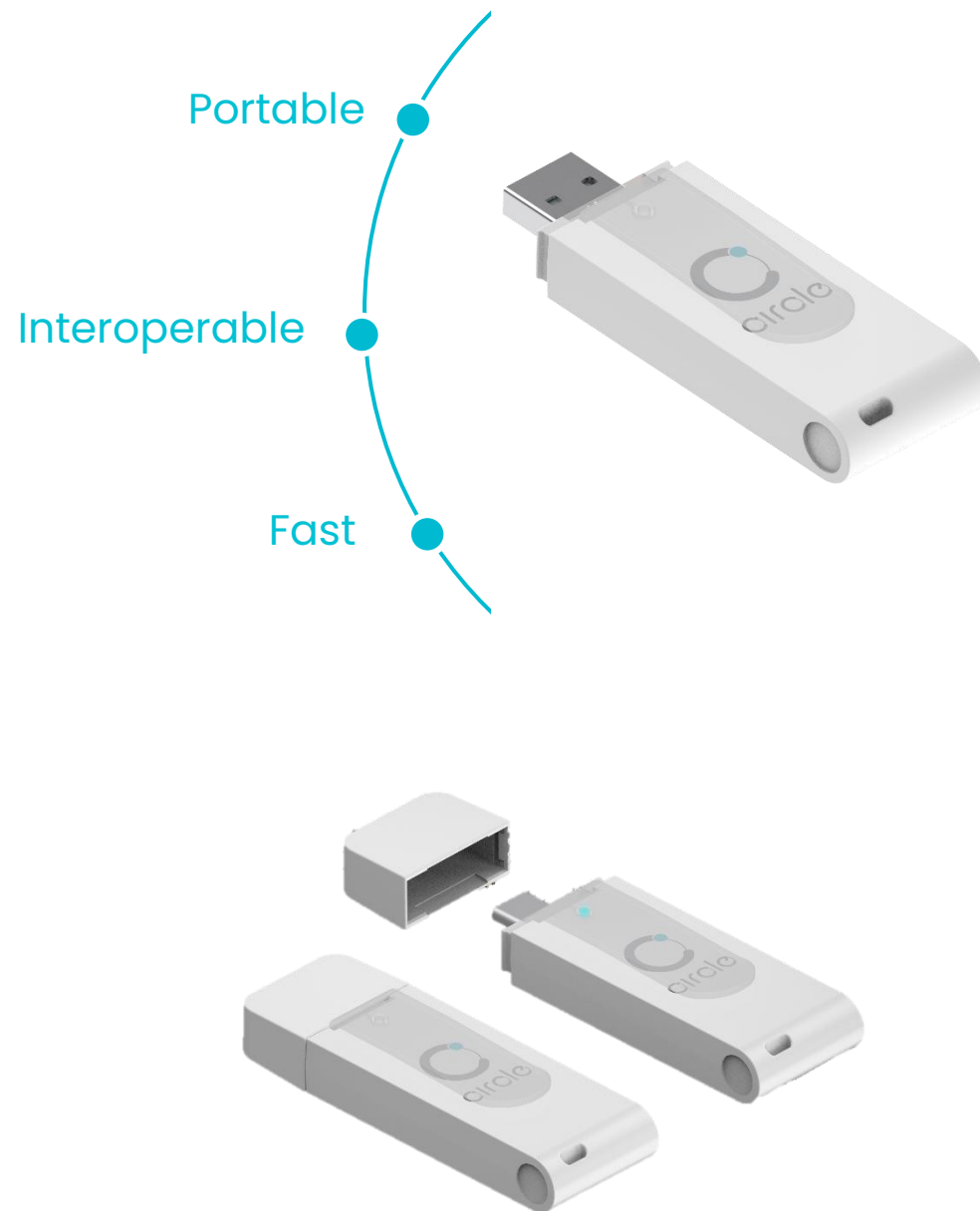# CIR315C

## Contactless Smart Card Reader

CIR315C Contactless Smart Card Reader, a portable and compact token for comprehensive contactless smart card applications for contactless smart card applications such as e-government, access control, network log-on, transportation and payment.

- 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, Calypso and NFC Forum Type 1/2/3/4/5 Tags
- 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

Portable

Interoperable

Fast

# CIR315C Contactless Smart Card Reader

### 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, NFC Forum Type 1/2/3/4/5 Tags |
| Speed | 106/ 212/ 424/ 848 kbps |
| Reading Distance | Up to 40 mm (depending on tag type) |
| Extended APDU | Support |

### Physical Characteristics

| | |
|---|---|
| Dimensions | 72.0 mm (L) x 24.0 mm (W) x 10.0 mm (H) |
| Weight | 12.5 g (± 2 g) |
| Casing | White ABS |

### Host Interface

| | |
|---|---|
| Power Supply | USB Bus-powered |
| Current Consumption | <250 mA (Operating) |
| | <50 mA (Standby) |
| USB Standard | USB 2.0 Full Speed (12 Mbps) |
| USB Connector Type | Default: Type A |
| | Optional: Type C |

### Human Interface

| | |
|---|---|
| LED | 1 LED: Blue (Operation Status) |

### Software and Driver

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

### Operating Conditions

| | |
|---|---|
| Operating Temperature | -10 ºC – 70 ºC |
| Operating Humidity | Max. 95% (non-condensing) |
| Storage Temperature | -20 ºC – 70 ºC |
| Meantime Between Failure (MTBF) | 600,000 hours |

### Compliance/ Certifications

| | |
|---|---|
| Standards/ Systems | ISO/IEC 14443, ISO/IEC 18092, ISO/IEC 15693, USB 2.0 Full Speed, CCID, Microsoft® WHQL |
| Regulatory/ Environmental | EN 62368, CE, FCC, VCCI, MIC, 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 | CIR315C-01: USB Type A Connector (Standard) |
| | CIR315C-02: USB Type C Connector |