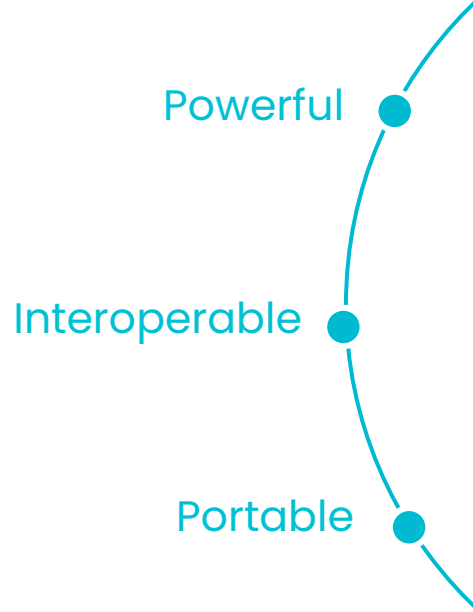# CIR125B

SIM-Sized Contact Smart Card Reader

CIR125B SIM-Sized Contact Smart Card Reader is an ideal solution for various SIM-sized smart card applications on the go. Its portable and extra-slim design is ergonomic. With CIR125 powerful core, it brings about fast and secure data transmission for applications, such as access control, e-government, e-healthcare and network log-on.

Powerful

Interoperable

Portable

- Supports ISO7816 Part 1/2/3/4 standard
- Supports SIM-sized ISO/IEC 7816 Class A/ B/ C cards with T=0 or T=1 protocol, and memory cards
- Supports extended APDU
- Complies with CCID standard
- Conforms to PC/SC specifications
- Firmware upgradeable
- Works on different operating systems
- Optional connector types: USB A or USB C

CIR125B
SIM-Sized Contact Smart Card Reader

Contact Smart Card Interface

Standard	ISO/IEC 7816 Part 1/2/3/4
Protocol	T=0, T=1
Supported Card Types	ISO7816 Class A/ B/ C (5V/ 3V/ 1.8V) cards, Memory cards
Supported Card Size	ID-000 (SIM 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	51.0 mm (L) x 17.8 mm (W) x 9.5 mm (H)
Weight	7.0 g (± 0.5 g)
Casing	White 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

Human Interface

LED	1 LED: Blue (Operation Status)

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 and above, Linux®, macOS® 10.12 and above, Android™ 6.0 and above

Ordering Information

Product Code	CIR125B-01: USB Type A Connector (Standard)
	CIR125B-02: USB Type C Connector