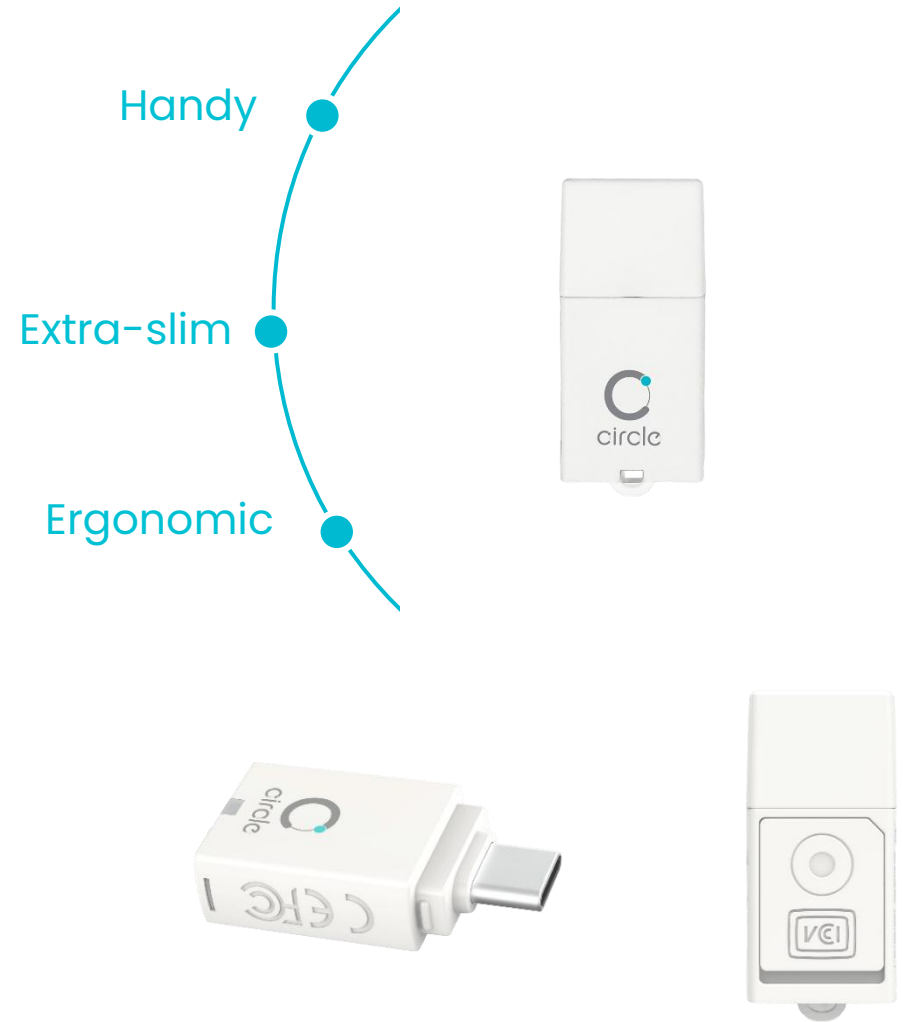


CIR135B

Nano-SIM Contact Smart Card Reader

CIR135B is a portable contact smart card reader designed for Nano-SIM (4FF) cards. Featuring a firmware-upgradable core, it delivers fast, reliable, and secure data transmission for a wide range of applications, including e-government services, network log-on, and other smart card-based solutions.

- Supports ISO/IEC 7816 Part 1/2/3/4 standard
- Supports Nano-SIM (4FF) 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 upgradable
- Works on different operating systems
- Connector types: USB C





CIR135B

Nano-SIM 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	ISO/IEC 7816 Class A/ B/ C (5V/ 3V/ 1.8V) cards, Memory cards
Supported Card Size	Nano SIM (4FF)
Supply Current	60 mA @5V, 50mA @ 3V and 30mA @1.8V
Speed	9.6 – 826 Kbps
Short Circuit Protection	Support
Clock Frequency	Up to 16 MHz (Default: 4.8 MHz)
Card Connector	Sliding, Min. 100,000 insertion cycles
Extended APDU	Support

Physical Characteristics

Dimensions	39.5 mm (L) x 18.0 mm (W) x 9.0 mm (H)
Weight	10 g (± 0.5 g)
Casing	White ABS

Host Interface

USB Standard	USB 2.0 Full Speed (12 Mbps)
USB Connector Type	Type C

Power

Power Supply	USB Bus-powered (5V DC)
Current Consumption	<100 mA (Operating), <2 mA (Standby)

Human Interface

LED	1 LED: 1 Blue (Operation Status)
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Software and Driver

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

Operating Conditions

Operating Temperature	-10 – 55 °C
Operating Humidity	0 – 95% (non-condensing)
Storage Temperature	-20 – 70 °C
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, FCC, UKCA, VCCI, RoHS3, REACH

Operational Environment

Supported Operating Systems	Windows® 7 SPI and above (including Windows® 11 ARM), Linux®, macOS® 10.12 and above, Android™ 6.0 and above, iOS 16/ iPadOS 16.1 and above (via Apple CryptoTokenKit – Swift sample code available)
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Ordering Information

Product Code	CIR135B-02: USB Type C
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