

HF | NFC - Desktop Reader

AB Circle - CIR315C

- ISO/IEC 14443 A&B, 15693 & 18092
- MIFARE®, FeliCa, Calypso & NFC Forum Tags
- Extended APDU – CCID & PC/SC compliant
- USB Type - A or Type - C
- USB Firmware Upgrades



HF | NFC - Desktop Reader Compact contactless reader token

The AB Circle CIR315C is a portable contactless smart card reader in token format, developed on 13.56 MHz contactless technology. It supports the ISO/IEC 14443, ISO/IEC 15693 and ISO/IEC 18092 standards in a housing that measures just 72 x 24 x 10 mm and weighs 12.5 g.

Compliant with both CCID and PC/SC standards, this plug-and-play HF | NFC - RFID reader handles ISO/IEC 14443-4 Type A & B cards, ISO/IEC 15693-3 cards, the MIFARE® series, FeliCa, Calypso and NFC Forum Type 1/2/3/4/5 tags at transfer rates of up to 848 kbps. Extended APDU support and USB firmware upgradability make it a versatile and cost-effective hardware solution.

Bus-powered and supported on Windows, Linux, macOS and Android, the CIR315C needs no external power supply and travels with the user. Its flexibility enables numerous potential applications, such as e-government, access control, network log-on, transportation and payment. Available with a USB Type-A or Type-C connector.

Common Applications

- e-Government
- Access Control
- Network Log-On
- Public Transportation
- Payment & Ticketing
- Membership Management



TECHNICAL SPECIFICATIONS

Contactless Interface

Operating Frequency	13.56 MHz
Supported Standards	ISO/IEC 14443-4 Type A & B, ISO/IEC 15693-3, ISO/IEC 18092 NFC, MIFARE® Classic / Plus / Ultralight / Ultralight C / DESFire / EV1 / EV2, FeliCa, Calypso, NFC Forum Type 1/2/3/4/5
Protocol	T=CL (translated to T=1 for PC/SC)
Reading Distance	Up to 40 mm (Depending on tag type)
Read / Write Speed	106 / 212 / 424 / 848 kbps
Extended APDU	Supported

Host Interface

Interface	USB 2.0, bus-powered
Protocol	USB CCID
Interface Speed	USB 2.0 Full Speed (12 Mbps)
Firmware Upgrades	Supported, via USB

Physical Characteristics

Dimension	72.0 x 24.0 x 10.0 mm
Weight	12.5 g (± 2 g)
Casing	White ABS
Connector Type	USB Type-A or Type-C

Electrical Characteristics

Power Supply	USB bus-powered
Consumption	< 250 mA (Operating) < 50 mA (Standby)
LED	1 x LED (Blue, Operation Status)

Operating Conditions

Temperature	-10 – 70 °C (Operating)
Storage Temperature	-20 – 70 °C
Humidity	Max. 95% (Non-condensing)
MTBF	600,000 Hours

Certifications & Compliances

Certifications	EN 62368, CE, FCC, VCCI, MIC, RoHS3, REACH
Compliances	USB 2.0 Full Speed, CCID, PC/SC, Microsoft® WHQL

Drivers & Support

Supported OS	Windows® 7 SP1 and above, Linux®, macOS® 10.12 and above, Android™ 6.0 and above
Driver	CCID
API	PC/SC

Part No. / Model

CIR315C-01	Read Write / CCID / PC/SC - USB-A
CIR315C-02	Read Write / CCID / PC/SC - USB-C