

HF | NFC - Keyboard Wedge Reader

AB Circle - CIR615A

- Keyboard emulation: UID typed at the cursor
- Driverless USB HID plus CCID for PC/SC apps
- ISO/IEC 14443 A/B, 15693 and 18092 (NFC)
- MIFARE®, FeliCa, Calypso, NFC Forum Type 1-5
- SAM slot, transparent card holder included



HF | NFC - Keyboard Wedge Reader Card UID at the cursor, no driver required

The AB Circle CIR615A is a 13.56 MHz contactless desktop reader with built-in keyboard emulation: it reads the UID, card serial number (CSN) or FeliCa IDm of a card or tag and types it at the cursor of the active application, such as Excel or a web form, without any driver installation.

Besides keyboard mode, the reader is a USB CCID device conforming to PC/SC and serves APDU-based applications, including extended APDUs. It covers ISO/IEC 14443 A/B, ISO/IEC 15693 and ISO/IEC 18092 with MIFARE®, FeliCa, Calypso, J-LIS cards and NFC Forum Type 1-5 tags at up to 50 mm.

Bus-powered via USB 2.0 Full Speed, it supports Windows®, Linux®, macOS® and Android™, and the default configuration can be changed via software. Note: ISO/IEC 14443-4 Type B cards do not return a constant UID. Standard version: USB Type-A with SAM slot; other variants on request.

Common Applications

- Badge Enrollment & Registration
- Time & Attendance Recording
- Visitor & Member Check-In
- Library & Asset Checkout
- POS Customer Identification
- UID Entry into Web & ERP Forms



TECHNICAL SPECIFICATIONS

Contactless Interface

Operating Frequency	13.56 MHz
Supported Standards	ISO/IEC 14443, 18092, 15693
Protocol	T=CL (mapped to T=1 for PC/SC)
Supported Cards	ISO/IEC 14443-4 Type A & B, ISO/IEC 15693-3, MIFARE® Classic, Plus, Ultralight, Ultralight C, DESFire® / EV1 / EV2, FeliCa Standard / Lite / Plug, Calypso, J-LIS, NFC Forum Type 1-5 Tags
Read / Write Speed	106 – 848 kbps (default 424 kbps)
Reading Distance	Up to 50 mm (depending on tag type)
Extended APDU	Supported

Keyboard Emulation

Device Class	USB HID keyboard, no driver needed
Output Data	UID / CSN or FeliCa IDm
Configuration	Default settings changeable via software
Type B Cards	UID not constant

SAM Interface

Standard	ISO/IEC 7816-3/4, T=0 / T=1
Supported Cards	Class A (5 V), ID-000 (SIM size)
Speed / Clock	9.6 – 125 kbps / 4.0 MHz

Host Interface

Interface	USB 2.0 Full Speed (12 Mbps)
Connector Type	USB Type-A (default), USB Type-C (optional), 1 m cable
Power Supply	USB bus-powered
Consumption	< 250 mA (operating), < 50 mA (standby)
Firmware Upgrades	Supported, via USB

Physical Characteristics

Dimensions	100.0 x 68.0 x 11.0 mm (L x W x H)
With Card Holder	101.6 x 72.1 x 12.9 mm (L x W x H)
Weight	89.0 g (± 5 g)
Casing	Reader: white and grey ABS; card holder: transparent ABS
LED / Buzzer	Blue (status), green (power) / monotone

Operating Conditions

Temperature	-10 °C to 70 °C (operating), -20 °C to 70 °C (storage)
Humidity	Max. 95 % (non-condensing)
MTBF	600,000 hours

Certifications & Compliances

Standards	ISO/IEC 14443, 18092, 15693, 7816 (SAM), USB 2.0 Full Speed, CCID, HID, Microsoft® WHQL
Regulatory	EN 62368, BS EN 62368, CE, FCC, UKCA, VCCI, MIC, RoHS3, REACH

Drivers & Support

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

Part No. / Model

CIR615A-01	USB Type-A, with SAM slot (standard)
CIR615A-02	USB Type-A, without SAM slot (MOQ)
CIR615A-03	USB Type-C, with SAM slot (MOQ)
CIR615A-04	USB Type-C, without SAM slot (MOQ)
10-100150	Reader stand (optional accessory)