

ADAGIO HF/NFC RFID card reader



The ADAGIO card reader is a compact RFID read /write device with integrated antenna. It is equipped with RS485 MODBUS and USB 2.0 interface.

The 13.56 MHz ADAGIO HF/NFC supports standard ISO 14443 A/B and ISO 15693. It reads and writes MIFARE® Classic Mini, 1K and 4K, Plus, SMART, DESFire, Ultralight or NTAG transponders.

The ADAGIO HF/NFC is a versatile read and write device for various applications and work sites such as employee identification on production lines within industrial environments. Its compact and sleek design with LED status indicator distinguish the RFID reader from other readers.

ADAGIO HF/NFC comes with a useful SDK for the development of controller, Linux or Windows based applications.

Product features :

- Versatile Read/Write device
- Supports ISO14443A/B and ISO16593
- Modern design with LED indication for user feedback
- MODBUS or USB interface allows easy integration
- Typical applications : E-Mobility, EV chargers, production lines, ...

Supported technologies :

- ISO14443A and compatibles :
 - Read/write:
MIFARE® Classic Mini/1K /4K, MIFARE Ultralight®, MIFARE Ultralight® C, MIFARE Ultralight® Nano, MIFARE® DESFire®EV1, MIFARE® DESFire® Light, MIFARE® Smart, MX, MIFARE® Plus S/X, MIFARE® Pro X, NTAG 21x, NTAG 424
 - Read UID only of all other ISO14443A RFID tags
- ISO14443B and compatibles :
SRI4K, SRIX4K, AT88RF020, 66CL160S, SR176
- ISO15693 and compatibles :
EM4135, EM4043, EM4x33, EM4x35, I-Code
SLI/SLIX/DNA, M24LR16/64, TI Tag-it HF-I,
SRF55Vxx (my-d vicinity)

Specifications :

Electrical specifications :

- Power supply: 5 V (pigtail cable) or 12 V
- Power consumption: < 90 mA
- Operating frequency : 13.56 MHz
- Read range : up to 5 cm
(depending on transponder types, power supply and ambient environment)
- Antenna : integrated
- RF TX Speed : up to 424 kBd
- Interfaces : RS485 - MODBUS or USB 2.0
- Baudrate on VCP : 9600...115200 Bd
- Connections : 10 cm pigtail cable (power & data)
- Indications : Status LED

Mechanical specifications :

- Dimensions : 100 × 46 × 20 mm
- Weight : 48 g
- Material : ABS
- Protection rate : IP40
- Housing Colour : Black

Environmental specifications :

- Operating Temperature : -20 °C ... +70 °C
- Storage Temperature : -20 °C ... +80 °C
- Humidity : up to 95 %, non condensing

Supported RFID technologies :

- ISO 14443 A and compatible
 - Read/write:
 - MIFARE® Classic Mini/1K /4K
 - MIFARE Ultralight®, MIFARE Ultralight® C, MIFARE Ultralight® Nano
 - MIFARE® DESFire®EV1, MIFARE® DESFire® Light
 - MIFARE® Smart
 - MX, MIFARE® Plus /X
 - MIFARE® Pro X
 - NTAG 21x, NTAG 424
 - Read UID only of all other ISO14443A RFID tags
- ISO 14443 B and compatible
 - SRI4K, SRIX4K, AT88RF020, 66CL160S, SR176
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SDK specifications :

- Supported OS by Silabs USB VCP Driver :
 - Windows 7/8/8.1/10 (v6.7.3)
 - Windows XP/Server 2003/Vista/7/8/8.1 (v6.7)
 - Windows 2K (v6.3a)
 - WinCE (5.0, 6.0)
 - Macintosh OSX (v4)
 - Linux (3.x.x., 2.6.x)
 - Android 4.2
- Supported OS : Windows XP, Vista, 7, 8, 8.1, 10
- Supported languages : C, ASCII command protocol
- Demo software : Windows

Conformity standards :

- EMC :
 - EN 301489-1:2012-04 (v1.9.21)
 - EN 301489-3:2013-12 (V1.6.1)
- Radio Regulation :
 - EN 300330-1:2015-08 (V1.8.1)
 - EN 300330-2:2015-08 (V1.6.1)
- Safety :
 - EN 60950-1:2014-08
 - EN 62369-1:2010-03
 - EN 50364:2010-11
- RoHS : EC Guideline 2011/65/EU
- Certificates : FCC, CE, IC