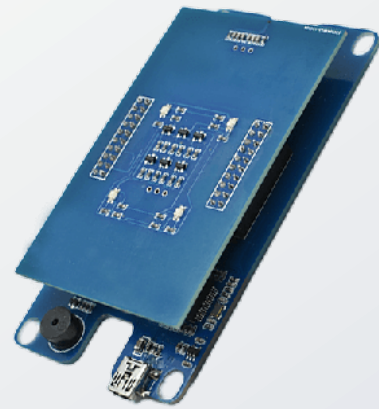


OEM Reader HF | NFC

R840



PRODUCT DESCRIPTION

The HF | NFC Embedded Reader R840 is an embeddable read and write RFID network module with integrated antenna and relay. It offers plug and play support and can be used within existing networks and systems.

The HF | NFC Embedded Reader R840 is available as DESFire, ISO 18000-3, HF and MIFARE Version. The HF and MIFARE versions are also available with Ethernet or WiFi interface for demanding industrial or IoT applications. The DESFire Version comes with a USB VCP or PC/SC interface which is especially designed for the reading of smart cards.

The 13.56 MHz HF | NFC Embedded Reader R840 supports ISO 14443A/B as well as ISO 15693 standards, including NXP MIFARE Ultralight®, MIFARE® Classic 1K, MIFARE® Classic 4K, I-Code SLI, TI Tag-it HF-I and ISO 18000-3.

The HF | NFC Embedded Reader R840 is low on power consumption and offers a space-saving design. A controllable buzzer and tricolor LED for acoustic and visual signaling are on board. The Ethernet Versions have a relay for remote control.

In combination with the useful SDK and testing software, the HF | NFC Embedded Reader R840 is the ideal choice for various RFID applications in a network environment.

APPLICATIONS

- Access Control
- Remote Control
- Payment Systems
- Automation System
- Network Control System

FEATURES

- DESFire, ISO 18000-3, HF, MIFARE
- External Power Supply or via USB
- WiFi, Ethernet, PC/SC, USB VCP | HID
- Low Power Consumption
- Relay for Remote Control
- Integrated Antenna

RFID OPTIONS

- ISO 14443 A/B
- ISO 15693
- NXP MIFARE®
- NXP DESFire®
- ISO 18000-3

TECHNICAL DATA

ELECTRICAL SPECIFICATIONS

Power Supply	5 or 12 Vdc (±5 % regulated)
Power Consumption	< 180 mA (RFID active, relay ON)
Operating Frequency	13.56 MHz
Reading Distance	up to 8 cm*
Antenna	Integrated, 87 × 54 mm
Baudrate	9.600 ... 115.200 bit/s
Interfaces	Ethernet, PC/SC
Signals	Buzzer, LED changes from blue to green to show steady contact with RFID data day
Connector	TCP/IP

MECHANICAL SPECIFICATIONS

Material	Antenna and Mainboard: FR4 Blue
Mounting Option	Screwing

ENVIRONMENTAL CONDITIONS

Operating Temperature	-20 °C ... +80 °C
Storage Temperature	-40 °C ... +85 °C
Humidity	up to 95%, non condensing
MTBF	200'000 h

SDK INFORMATION

Supported OS by Silabs USB VCP Driver	Windows 7/8/8.1/10
	Windows Server 2003/7/8/8.1
	Windows 2K
	WinCE (5.0, 6.0)
	Macintosh OSX
Supported OS	Linux (4.x.x., 2.6.x)
	Android 4.2
Supported OS	Windows 7, 8, 8.1, 10
Supported Languages	C++, Binary command protocol
Demo Software	Windows

APPLICABLE 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
RED	2014/53/EU
RoHS 2	EC Guideline 2011/65/EU
REACH	EC Guideline 2018/2005/EU

ACCESSORIES (OPTIONAL)

PRODUCT ACCESSORIES

Accessories (Optional)	• Remote Control (Wired / Wireless)
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ORDER CODES

	HF	MIFARE
ORDER CODES		
Ethernet	OEM-HF-R840-ET	OEM-MF-R840-ET
WiFi	OEM-HF-R840-WIFI	OEM-MF-R840-WIFI