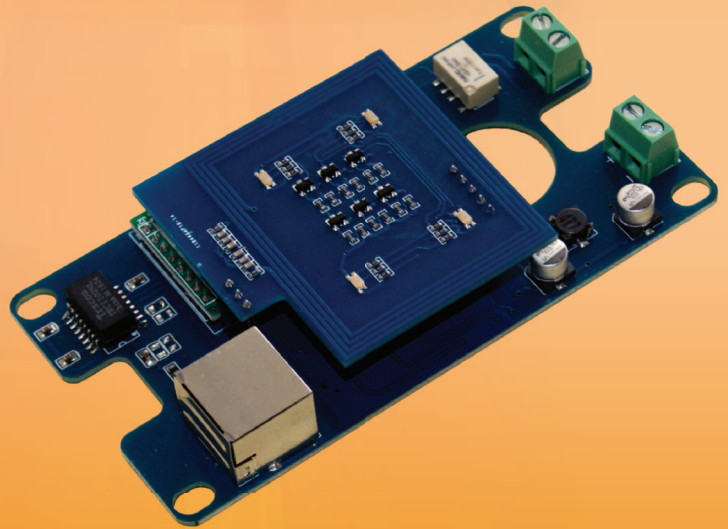


# HF Reader R840



## Applications

- Access Control
- Remote Control
- Automation System
- Network Control System

## Features

- Plug & play networking
- Ethernet interface
- Integrated antenna
- Low power consumption
- External power supply

## RFID Options

- HF (ISO/IEC 14443A/B, 15693)

The Reader R840 HF 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.

A Ethernet interface allows easy implementation and integration. For power supply, the reader only requires a 12 Vdc external source.

The 13.56 MHz HF 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 more.

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.

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

## Technical Data

Electrical Specifications	
Power Supply	12 Vdc (± 5 % regulated)
Current Consumption	< 180 mA (RFID active, relay ON)
Operating Frequency	13.56 MHz
Operating Distance	up to 7 cm*
Antenna	integrated
Interfaces	Ethernet TCP/IP
Writing / Reading	Max. 424 kbps
Input / Output	1 Relay C-NC-NO
Relay	Max. switching power: 30W/37.5VA Max. switching voltage: 220Vdc/250Vac Max. switching current: 1A Max. carrying current: 1A Initial contact resistance: Maxi. 100 mΩ (initial)
Signals	Buzzer Tricolor LED on Antenna

Mechanical Specifications	
Dimensions	110 × 56 × 18 mm
Weight	50 g

Environmental Conditions	
Operating Temperature	-10°C ... +70°C
Storage Temperature	-20°C ... +80°C
Humidity	up to 95%, non condensing

Supported Standards / Tags	
ISO14443 A and compatible	Read/write: MIFARE® Classic Mini / 1K /4K, MIFARE Ultralight®, MIFARE Ultralight® C, NTAG21x  Read UID only: MIFARE® DESFire, MIFARE® Pro X, MIFARE® Plus S / X, read UID only of all other ISO14443A RFID tags
ISO14443 B and compatible	SRI4K, SRIX4K, AT88RF020, 66CL160S, SR176
ISO15693 and compatible	EM4135, EM4043, EM4x33, EM4x35, I-Code SLI / SLIX, M24LR16/64, TI Tag-it HF-1, SRF55Vxx (my-d vicinity)

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
RoHS	EC Guideline 2011/65/EU
Certificates	FCC, CE, IC

SDK Information	
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

\* Reading distance depends on tag type and orientation.

## Order Codes

Version	Order Code
Reader R840 HF	OEM-HF-R840-ET

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