

## HF | NFC READER

# R840 ET



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

The Reader ET R840 is available as HF version with Ethernet interface for demanding industrial or IoT applications.

The 13.56 MHz Reader R840 ET supports ISO 14443A/B as well as ISO 15693 standards. The HF | NFC Reader R840 ET is low on power consumption and offers a space-saving design. A controllable buzzer and tricolor LED for acoustic and visual signaling are integrated.

In combination with the useful SDK and testing software, the Reader ET 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

- MIFARE<sup>®</sup>
- External Power Supply
- Ethernet, HID
- Low Power Consumption
- Relay for Remote Control
- Integrated Antenna

### ► RFID OPTIONS

- ISO 14443 A/B
- ISO 15693
- NXP MIFARE<sup>®</sup>
- NXP DESFire<sup>®</sup>

## TECHNICAL DATA

ELECTRICAL SPECIFICATIONS	
Power Supply	5 or 12 Vdc ( $\pm 5\%$ 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 tag
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 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	2011/65/EU
REACH	1907/2006

## ORDER CODES

\*READING DISTANCE DEPENDS ON TAG, ANTENNA AND ENVIRONMENTAL CONDITIONS.  
\*\*ONLY AVAILABLE FOR SOME VERSIONS.

VERSIONS	ORDER CODES
<b>HF</b>	
HF   NFC Embedded Reader R840 ET - HF Ethernet (Read Only)	OEM-HF-R840-ET
HF   NFC Embedded Reader R840 ET - HF WiFi (Read Only)	OEM-HF-R840-WIFI
<b>MIFARE</b>	
HF   NFC Embedded Reader R840 ET - MIFARE Ethernet (Read Only)	OEM-MF-R840-ET
HF   NFC Embedded Reader R840 ET - MIFARE WiFi (Read Only)	OEM-MF-R840-WIFI