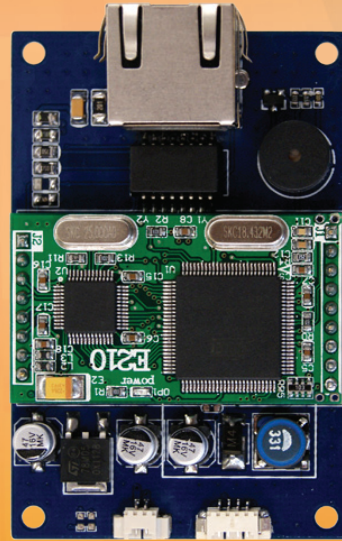


HF Modules M840/M845



Applications

- Identification
- Ticketing
- Payment
- Access Control

Features

- Plug & play networking
- TCP/IP interface
- POE or external power supply
- Low power consumption
- Module incl. Antenna

RFID Options

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

Description

Embedded HF Modules M840 and M845 have been designed to support ISO14443A/B as well as ISO15693 and multiple MIFARE® high security tags.

For Power Supply you have the choice between a DC 5V external power Module (M840) and a POE Version (M845). Both Modules offer the possibility to connect an external antenna via U.FL connector. iDTRONIC offers a choice of different antenna sizes for your convenience.

A TCP/IP interface allows easy integration and implementing. The typical reading distance is up to 10cm for both versions.

An Antenna 35 x 50mm with 2 pin connector and 10cm cable are provided with each Module.

In combination with the useful SDK and testing software, the Embedded HF Modules M840 and M845 are the ideal choice for various RFID applications in a network environment.


Technical Data

Electrical Specifications	
Power Supply	DC 5V external power supply (M840) POE (M845)
POE Specs.	Supports IEEE 802.3af-2003 & IEEE 802.3at Tested with TP-LINK, Cisco, Tenda, Winchen, injectors Designed for 10 /100 Mbps
Current	< 100 mA
Operating Frequency	13.56MHz
Baudrate	9600 ~ 11522 bit/s
Operating Distance	up to 10 cm*
Antenna Connector	U.FL connector
Inputs / Outputs	2
Status	Internal LED & Buzzer
Interfaces	TCP/IP

Mechanical Specifications	
Dimensions	67 x 45 x 23mm (M840) 77 x 45 x 14mm (M845)

Environmental Conditions	
Operating Temperature	-20°C ... +70 °C
Storage Temperature	-20°C ... + 80°C
Humidity	5 % to 95 %

Supported Standards / Tags
ISO/IEC 14443A/B, ISO/IEC 15693
NXP MIFARE Ultralight® / Ultralight® C MIFARE® Classic Mini / 1K / 4K NXP I-Code SLI, TI Tag-it HF-I, EM4135 STM SRI-X 4K

SDK Information	
Supported OS	Windows XP, Vista, 7, 8 Linux
Download Link	

*Reading distance depends on tag, antenna and environmental conditions

Available Antennas

Antennas Size	Connector	Order Code
20 x 30mm	M8 UFL	OEM-HF-M8-A910-UFL
20 x 40mm	M8 UFL	OEM-HF-M8-A911-UFL
35 x 50mm	M8 UFL	OEM-HF-M8-A912-UFL
80 x 80mm	M8 UFL	OEM-HF-M8-A913-UFL
60 x 80mm	M8 UFL	OEM-HF-M8-A914-UFL
54 x 86mm	M8 UFL	OEM-HF-M8-A915-UFL
49 x 55mm	M8 UFL	OEM-HF-M8-A916-UFL

Order Codes

Version	Order Code
M840 (DC 5V)	OEM-HF-M840-ET
M845 (POE)	OEM-HF-M845-ET

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