

iDTRONIC's M890 Embedded HF and MF Modules are multi-protocol (ISO 14443A/B, ISO15693 & MIFARE Ultralight / Classic) RFID readers/writers. They are low-power consuming high-performance Modules and ideal to embed RFID as a feature in a wide range of products.

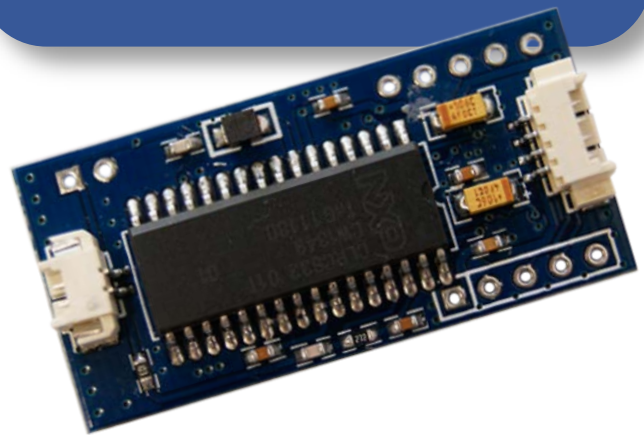
The HF/MF Modules M890 have the possibility to connect an external antenna. iDTRONIC offers a wide choice of suitable antennas. The reading distance can be up to 8 cm, depending on type of transponder.

For low-power applications (for example mobile or standalone devices), a 3.3V version of this Module is also available. Interface options include TTL, USB, RS232 and RS485.

The Embedded HF/MF Module M890 comes with a full SDK and MS Windows based application Software.

Applications

- Ticketing
- Payment
- Access Control
- Mobile Terminals



Technical Data

Mechanical Specifications

Dimensions: 40 × 20 x 9,6 mm

Electrical Specifications

Power Supply: DC 5 or 3.3V

Power Consumption: < 100 mA (5V HF Vers.)
< 45 mA (5V MF Vers.)

Antenna: external

Reading Distance: up to 8 cm (depending on tag and antenna type)

Operating System: Windows, Linux, Android

Interfaces: TTL / USB
RS232 / RS485

Supported Standards / Tags (HF Version)

ISO 14443 A/B, ISO 15693,
NXP MIFARE Ultralight® / Ultralight® C
MIFARE® Classic Mini / 1K / 4K
I-Code SLI, TI Tag-it HF-I, EM4135

Supported Standards / Tags (MF Version)

ISO 14443A
NXP MIFARE Ultralight® / Ultralight® C
MIFARE® Classic Mini / 1K / 4K
ISO 14443-4 Contactless CPU cards

Environmental Conditions

Operating Temperature: -10 °C ... +70 °C
Humidity: 5 % to 95 %

Available Antennas

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

For Connecting Cables and Converters please refer to our current price list

Order Codes

HF Version

TTL: OEM-HF-M890-TTL
TTL 3.3V: OEM-HF-M890-TTL-3.3V
RS232: OEM-HF-M890-232
RS485: OEM-HF-M890-485
USB: OEM-HF-M890-USB

MF Version

TTL: OEM-MF-M890-TTL
TTL 3.3V: OEM-MF-M890-TTL-3.3V
USB: OEM-MF-M890-USB