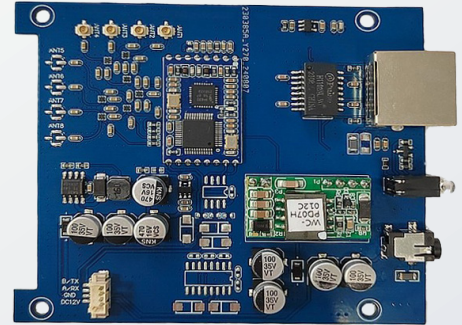


Embedded Module 4/8CH HF | NFC **M980**



PRODUCT DESCRIPTION

The iDTRONIC HF | NFC Embedded Module M980 is a high-performance and low-cost RFID module for integration into check-in counters, libraries, retail, or shelving systems. With its cutting-edge microcontroller and latest HF transceiver technology, the module allows users to read and write 13.56 MHz transponders supporting the common RFID standard ISO15693.

Thanks to its 4 or 8 antenna ports, the HF | NFC Embedded Module M980 achieves reading ranges of up to 10 cm (depending on the type of transponder). Its serial-based interface RS485, RS232 and Ethernet connectivity allow easy and fast integration into existing electronics or a fast-paced new development of high-end identification applications.

iDTRONIC's hardware comes with a useful SDK for the development of controller, Linux, or Windows-based applications. Beside the documentation, command protocols, and source codes, the SDK includes a Windows-based demo application with full functionality over the supported HF RFID standard.

APPLICATIONS

- Library
- Retail
- Luggage Identification
- Shelving Systems
- Lean Production

FEATURES

- Reading Range up to 10 cm
- SDK and Windows based application are supplied
- 8 Antenna Ports
- RS485, RS232 Interface / Ethernet

RFID OPTIONS

- ISO 15693

TECHNICAL DATA

ELECTRICAL SPECIFICATIONS

Power Supply	7 ~ 24 Vdc
Power Consumption	< 150 mA, standby current < 2 mA (low power mode)
Operating Frequency	13.56 MHz
Reading Distance	up to 10 cm*
Antenna	External
Baudrate	9600 ... 115200 bit/s (default 115200bps)
Antenna Connector	U.FL
Interface	RS485, RS232, Ethernet
Connector	JST XH 2.0mm pitch

MECHANICAL SPECIFICATIONS

Material	FR-4, Green
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

GENERAL SPECIFICATIONS

Dimensions	48 × 65 × 9.7 mm
Weight	50 g
RT FX Speed	up to 848 kBd
Reader IC	NXP CLRC663

SDK INFORMATION

Supported OS	Windows 7, 8, 8.1, 10
Supported Languages	C# language
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
Certificates	CE

SUPPORTED STANDARDS / TAGS

ISO15693 and compatible	EM4135, EM4043, EM4x33, EM4x35, I-Code SLI / SLIX / DNA, M24LR16 / 64, TI Tag-it HF-I, SRF55Vxx (my-d vicinity)
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***READING DISTANCE DEPENDS ON TAG,
ANTENNA AND ENVIRONMENTAL CONDITIONS.**

ORDER CODES

VERSIONS	ORDER CODES
HF NFC Embedded Reader M980 - RS485	OEM-M980-485
HF NFC Embedded Reader M980 - RS232	OEM-M980-232
HF NFC Embedded Reader M980 - Ethernet	OEM-M980-ETH