



MPR Series

HF READER IA

PRODUCT DESCRIPTION

The iDTRONIC MPR Series HF Reader IA is an advanced HF RFID device designed for versatile use in automation, access control, and multi-purpose environments. It supports reading and writing of HF RFID tags (ISO 1444A/B, ISO 15693, ISO 18000-6C) and transponders, enabling flexible integration into a wide range of applications. Its robust design ensures reliable performance even in demanding operational conditions. An integrated status LED provides immediate visual feedback on the device's operating state.

The MPR Series HF Reader IA is certified according to RoHS 2 and REACH. It is supplied with a software development kit for Windows systems. This supports the programming languages: Binary command protocol, VS2005 C++ Library. The SDK simplifies the integration into your existing systems.



APPLICATIONS

- Automation
- Access Control
- Multi-Purpose

FEATURES

- Integrated Antenna
- M12 Connector
- Status LED
- Protection Class IP67
- Up to 10 cm Read Range

AVAILABLE INTERFACES

- CANopen
- RS232
- RS485
- USB virtual
- TCP/IP POE
- Modbus

RFID STANDARD

- HF
 - ISO 14443A/B
 - ISO 15693
 - ISO 18000-3



TECHNICAL DATA

ELECTRICAL SPECIFICATIONS

Power Supply	7 - 24 Vdc, or from USB
Power Consumption	< 50 mA, standby current < 1 mA, (low power mode)
Operating Frequency	HF: 13.56 MHz
Antenna	Integrated
Reading Range	up to 10 cm*
Interfaces	CANopen RS232, RS485, USB virtual, TCP/IP PoE, Modbus
Connectors	M12 Connector

MECHANICAL SPECIFICATIONS

Dimensions	81 × 53 × 24 mm
Material	ABS, Black gloss surface
Weight	120 g

ENVIRONMENTAL CONDITIONS

Operating Temperature	-20 °C up to +80 °C
Storage Temperature	-40 °C up to +85 °C
Humidity	up to 95 %, non condensing
MTBF	200'000 h
Protection Class	IP67

SDK INFORMATION

Supported OS	Windows 7, 8, 8.1, 10
Supported Languages	C++, Binary command protocol

SUPPORTED STANDARDS / TAGS

ISO 14443 A	Read/write: MIFARE® Classic 1K /4K, MIFARE Ultralight®, MIFARE Ultralight® C, MIFARE DESFire® EV1/EV2/EV3, MIFARE® Smart MX, MIFARE® Plus S / X, MIFARE® Pro X, NTAG 21x Read UID only: all other ISO 14443A RFID tags
ISO 14443 B	SRI4K, SRIX4K, AT88RF020, 66CL160S, SR176
ISO 15693	EM4135, EM4043, EM4x33, EM4x35, I-Code SLI / SLIX, M24LR16/64, TI Tag-it HF-I, SRF55Vxx (my-d vicinity) , Fujitsu MB89R112A

APPLICABLE STANDARDS

EMC	ETSI EN 301 489-1 V2.2.3 (2019-11) ETSI EN 301 489-17 V3.3.1 (2024-09)
Radio	ETSI EN 300 330 V2.1.1 (2017-02)
Safety	EN IEC 62368-1:2024+A11:2024
RoHS 2	EU Guideline 2011/65/EU and 2015/863/EU
Health	EU Guideline 2011/65/EU and 2015/863/EU
Certificates	CE

***READING DISTANCE DEPENDS ON TAG, ANTENNA AND ENVIRONMENTAL CONDITIONS.**

ORDER CODES

VERSIONS	ORDER CODES
HF MULTI-PURPOSE Reader - CANopen	R-MP-HF-IA-CAN
HF MULTI-PURPOSE Reader - RS232	R-MP-HF-IA-232
HF MULTI-PURPOSE Reader - RS485	R-MP-HF-IA-485
HF MULTI-PURPOSE Reader - USB virtual	R-MP-HF-IA-USB
HF MULTI-PURPOSE Reader - TCP/IP PoE	R-MP-HF-IA-TCP/POE
HF MULTI-PURPOSE Reader - Modbus	R-MP-HF-IA-MB