



MPR Series

UHF READER IA

PRODUCT DESCRIPTION

The iDTRONIC MPR Series UHF Reader IA is an advanced UHF RFID device designed for versatile use in industrial automation, logistics, and production environments. It supports reading and writing of UHF RFID tags (EPC GEN2 | 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 UHF 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

- Logistics
- Production Control
- Industrial Automation

FEATURES

- Integrated Antenna
- M12 Connector
- Status LED
- Protection Class IP67
- Up to 30 cm Read Range

AVAILABLE INTERFACES

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

RFID STANDARD

- UHF
 - (EPC GEN2 | ISO 18000-6C)



TECHNICAL DATA

ELECTRICAL SPECIFICATIONS

Power Supply	7 - 24 Vdc
Power Consumption	< 50 mA, standby current < 1 mA, (low power mode)
Operating Frequency	UHF: 865 - 868 MHz (ETSI)
Antenna	Integrated
Reader IC	MagicRF M100
Reading Range	Up to 30 cm
RF Power	Up to 26 dbm
RF TX Speed	up to 848 kBd
Baudrate	250 or 500 kbit/s
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

Standard ISO 18000-6C, EPC Class 1 Generation 2

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

UHF MULTI-PURPOSE Reader - RS232
UHF MULTI-PURPOSE Reader - RS485
UHF MULTI-PURPOSE Reader - USB virtual
UHF MULTI-PURPOSE Reader - TCP/IP PoE
UHF MULTI-PURPOSE Reader - Modbus
UHF MULTI-PURPOSE Reader - CANopen

ORDER CODES

R-MP-UHF-IA-232
R-MP-UHF-IA-485
R-MP-UHF-IA-USB
R-MP-UHF-IA-TCP/POE
R-MP-UHF-IA-MB
R-MP-UHF-IA-CAN