MPR Series

UHF READER IA MR

PRODUCT DESCRIPTION

The iDTRONIC MPR Series UHF Reader Integrated Antenna Mid-Range 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 18000-63C) 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 MR 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**
- **Multi-Purpose**

FEATURES

- **Integrated Antenna**
- **M12 Connector**
- **Status LED**
- **Protection Class IP67**
- **Up to 50 cm Read Range**

AVAILABLE INTERFACES

- **CANopen**
- **RS232**
- **RS485**
- **TCPIP POE**
- **Modbus**

RFID STANDARD

- **UHF**
  - **(EPC GEN2 | ISO 18000-63C)**

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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
Reading Range	up to 50 cm
RF Power	up to 26 dbm
RF TX Speed	up to 848 kBd
Interfaces	CANopen RS232, RS485, TCPIP PoE, Modbus
Connectors	M12 Connector

MECHANICAL SPECIFICATIONS	
Dimensions	100 × 100 mm
Material	ABS, Black gloss surface
Weight	178g

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

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

SUPPORTED STANDARDS / TAGS
Standard ISO 18000-63C, 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 302 208 V3.4.1 (2023-12)
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 DISCTANCE DEPENDS ON TAG, ANTENNA AND ENVIRONMENTAL CONDITIONS.

ORDER CODES

VERSIONS	ORDER CODES
UHF MULTI-PURPOSE Reader IA MR - CANopen	R-MP-UHF-MR-IA-CAN
UHF MULTI-PURPOSE Reader IA MR - RS232	R-MP-UHF-MR-IA-232
UHF MULTI-PURPOSE Reader IA MR - RS485	R-MP-UHF-MR-IA-485
UHF MULTI-PURPOSE Reader IA MR - TCPIP PoE	R-MP-UHF-MR-IA-TCP/POE
UHF MULTI-PURPOSE Reader IA MR - Modbus	R-MP-UHF-MR-IA-MB

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