# iDTRONIC

**PROFESSIONAL RFID**

## UHF Industrial Reader
# Advant MR IA

### Applications

- Industrial Automation
- Supply Chain
- Asset Tracking
- Waste Management
- Access Control

### Features

- ISO18000-6B (optional)
- Up to +27 dBm (Software adjustable)
- Integrated Antenna
- Solutions for Near Field, Short- & Mid-Range applications
- Possibility of using different RFID Standards parallel in one Application
- Several Working Modes
- Integrated I/O Ports
- Diagnostic Mode via USB
- Multiple Interface Options·
- Common SDK for all BLUEBOX Products
- CE & FCC approved

### RFID Options

- UHF (**EPC C1G2** / ISO18000-6C)

## Description

BLUEBOX UHF Industrial Reader Advant MR IA with Integrated Antenna can achieve a reading distance of up to three meters with SW adjustable RF power of up to +30 dBm.  The Advant MR reader  with integrated antenna is the perfect device for applications with limited space for installations and the demand for good reading-ranges.

The combination of a modern RF module and an up-to-date controller engine enables both fast data processing and high reading rates in one device. The powerful BLUEBOX SDK allows the fast development of extensive applications.

The reader and writer supports 840-960 MHz (ETSI).

# Technical Data

## Electrical Specifications

| | |
|---|---|
| Power Supply | 24 VDC ± 10 % |
| Power Consumption | 3.5 W |
| Operating Frequency | 840 – 960 MHz (ETSI) |
| Output Power | +30 dBm (SW adjustable) |
| Operating Distance | up to 3 m |
| Connectors | M12 (Power & Interface) |
| Antenna Connector | Internal Antenna |
| Digital I/O | 2 (opto-isolated) |
| Interface options | RS232/485, Ethernet, Profibus, Profinet, Modbus (TCP) |

## Features

| | |
|---|---|
| Working Modes | Continuous Mode Spontaneous Mode |
| RSSI Info | Via Software Command |
| Status Display | 4/8 |
| Multi-Reader Env. | Dense Reader Mode |
| Temperature Sensor | On-board |
| Real – Time Clock | Accuracy > 0,01s |
| Service Interface | USB |

## Environmental Conditions

| | |
|---|---|
| Operating Temperature | -20°C to +55 °C |
| Humidity | 5% to 95% |

## Supported Standards / Tags

ISO18000-6C, EPC Class 1 Gen 2

## Applicable Standards

| | |
|---|---|
| EMC | EN 301 489-3 |
| Radio Regulation | EN 302 208-2 |
| Safety | CEI EN 60950-1 CEI EN 50364 |

## SDK Information

| | |
|---|---|
| Supported OS | Windows XP, Vista, 7, 8 |
| Supported Languages | C#, C++, serial command protocol |

*Reading distance depends on tag, antenna and environmental conditions

# Order Codes

| Version | Order Code |
|---|---|
| Ethernet | R-IN-UHF-5222U |
| RS232/RS485 | R-IN-UHF-5221U |
| Profibus | R-IN-UHF-5223U |
| Modbus | R-IN-UHF-5222U-MB |

For further information & prices, please contact info@idtronic-rfid.com