

OBID i-scan<sup>®</sup> UHF

## UHF Mid Range Reader ID ISC.MRU102



### Core Features

- Read Range up to 4 m\*
- Compact dimension
- Integrated Multiplexer
- SMA-Antenna Connector
- Integrated Antenna
- Configurable Output Power
- Available as USB- and Ethernet- Version
- Housed Version and Module Version available
- Power over Ethernet (only ID ISC.MRU102-PoE)
- International Certification



# ID ISC.MRU102-PoE / ID ISC.MRU102-USB

## Short-Description

The UHF Mid Range Reader ID ISC.MRU102 is designed for wireless communication with transponders according to the air interface standard EPC Class1 Gen2. It can be used for all kind of applications which require medium read range and convinces with its compact dimension and great performance.

- Read range of up to 4 m\* in combination with the UHF-Antenna ID ISC.ANT.U270/270-EU
- SMA-connector for one external antenna
- Integrated Antenna; can also be used with Near Field Transponders
- Configurable output power in the range between 50 mW and 500 mW
- 2 different versions are available; Ethernet or USB for flexible integration into existing applications
- Mounting set available

### Possible Applications:

Industry Applications with medium read range, Desktop Applications, etc.

\* The maximum Read Range is depending on the used antenna, the antenna cable, the used transponder and the environmental conditions.



## Ordering Information

ID ISC.MRU102-PoE	housed version; 1 external Antenna; 1 integrated Antenna; Ethernet (PoE)
ID ISC.MRU102-USB	housed version; 1 external Antenna; 1 integrated Antenna; USB

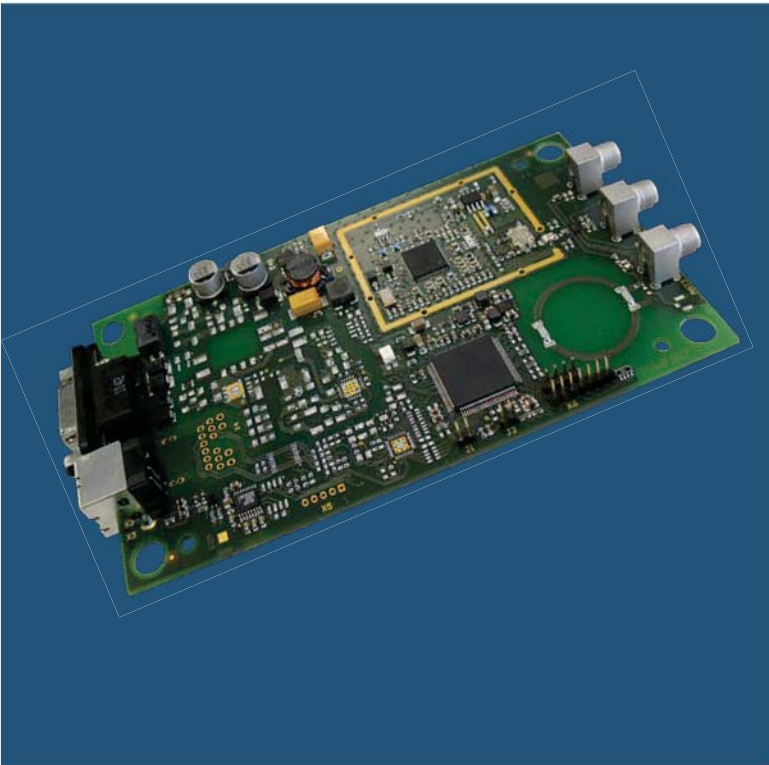
## Technical Data

Dimensions (B x H x D)	145 mm x 85 mm x 27 mm
Power Supply	12 V DC to 24 V DC
Power Consumption	max. 7 W
Operating Frequency	860 MHz to 960 MHz
Output Power	max. 500 mW, configurable
Antenna Connector	1 x SMA-Female (50 Ω) 1 x integrated Antenna
Interfaces	- MRU102-PoE: Ethernet (PoE) - MRU102-USB: USB (Full Speed)
Signaler, optical	1 LED (multi-color)
Supported Transponder Types	EPC Class1 Gen2 ISO 18000-6-C (optional)
Software-Protocol	FEIG Reader Protocol
Protocol-Modes	ISO Host Mode, Buffered Read Mode, Scan Mode (only -USB), Notification Mode (only -PoE)
Extras	Temperature monitoring
Temperature Range Operation	-25 °C to 55 °C (-USB) -25 °C to 45 °C (-PoE)
Storage	-25 °C to 85 °C
Humidity	5 % to 95 % (non-condensing)

## Applicable Standards

Radio Regulation	
Europe	EN 302 208
USA	FCC 47 CFR Part 15
Canada	IC RSS-GEN, RSS-210
EMC	EN 301 489
Safety	
Electrical Safety	EN 60950
Vibration	EN 60068-2-6 10 Hz to 150 Hz: 0,075 mm / 1 g
Shock	EN 60068-2-27 Acceleration: 30 g

# ID ISC.MRMU102-A



## Short-Description

The Mid Range Reader-Module ID ISC.MRMU102 out of the OBID i-scan<sup>®</sup> UHF-Series is a single PCB Board and convinces with its great performance.

- Read Range of up to 4 m\* in combination with the UHF-Antenna ID ISC.ANT.U270/270-EU
- 3 switchable Antenna outputs and 1 integrated Antenna for different kind of application
- Configurable Output Power in the range between 50 mW and 500 mW (different Power-Modes)
- 2 different interfaces for flexible integration into existing application
- Mounting holes in each corner of the PCB

Possible Application:

Industry Application with medium read range, Integration into machines, etc.

\* The maximum Read Range is depending on the used antenna, the antenna cable, the used transponder and the environmental conditions.

## Ordering Information

ID ISC.MRMU102-A      Module Version; 3 external Antennas;  
1 integrated Antenna; USB and  
RS232 interface

## Technical Data

Dimension (B x H x D)	137 mm x 77 mm x 17 mm
Power Supply	12 V DC to 24 V DC
Power Consumption	max. 7 W
Operating Frequency	860 MHz to 960 MHz
Output Power	max. 500 mW, configurable
Antenna connector	3 x SMA-Female (50 Ω) 1 x integrated Antenna
Interfaces	RS232-V24, USB (Full Speed)
Signaler, optical	1 LED (Multi-color)
Supported Transponder Types	EPC Class1 Gen2 ISO 18000-6-C (optional)
Software-Protocol	FEIG Reader Protocol
Protocol-Modes	ISO Host Mode, Buffered Read Mode, Scan Mode
Extras	Temperature monitoring
Temperature Range Operation	-25 °C to 55 °C
Storage	-25 °C to 85 °C
Humidity	5 % to 95 % (non-condensing)

## Applicable Standards

Radio Regulation	EN 302 208 FCC 47 CFR Part 15 IC RSS-GEN, RSS-210
EMC	EN 301 489
Safety Electrical Safety	EN 60950
Vibration	EN 60068-2-6 10 Hz to 150 Hz: 0,075 mm / 1 g
Shock	EN 60068-2-27 Acceleration: 30 g