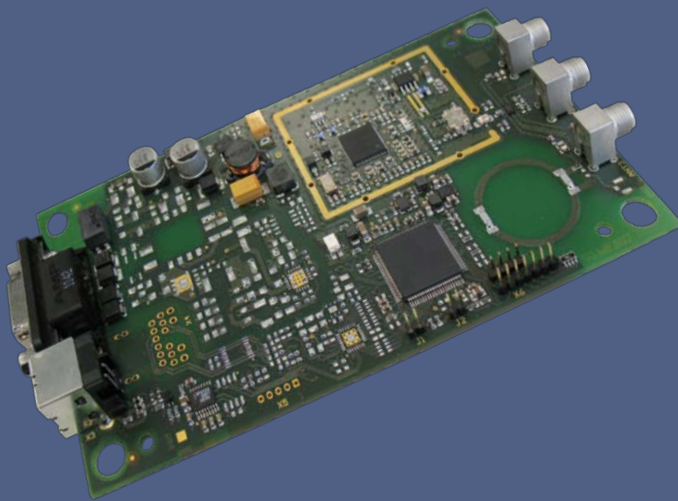


UHF Mid Range Reader Modules ID ISC.MRMU102-PoE and ID ISC.MRMU102-A



FEATURES

- Read Range up to 4 m*
- Compact dimension
- Integrated multiplexer
- 3 x SMA-plugs for connection of external antennas
- Integrated antenna for communication with near field and far field transponders
- Configurable output power
- Available as USB / RS232- and Ethernet- Version
- Support of EPC Global Low Level Reader Protocol (LLRP) via LLRP library
- Power over Ethernet (only ID ISC.MRMU102-PoE)
- International certifications



ID ISC.MRMU102-PoE / ID ISC.MRMU102-A

SHORT-DESCRIPTION

The Mid Range Reader-Module ID ISC.MRMU102 out of the OBID i-scan® 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
- 3 switchable Antenna outputs and 1 integrated Antenna (also suitable for communication with near field transponder) for different kind of application
- Configurable Output Power in the range between 50 mW and 500 mW (different Power-Modes)
- different interfaces for flexible integration into existing application
- Mounting holes in each corner of the PCB

Possible Application:

Industry 4.0, Production control, process optimization, 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-PoE Order number: 4493.000.00

Module version with Ethernet interface,
3 x external antenna connectors SMA plug, 50Ohm,
1 x integrated antenna

ID ISC.MRMU102-A Order number: 3779.000.00

Module version with asynchronous RS232 and USB interface,
3 x external antenna connectors SMA plug, 50Ohm,
1 x integrated antenna

OPTIONAL ACCESSORIES

- Power supply units
- Connection cables
- Mounting sets
- Antennas
- Antenna cables

TECHNICAL DATA

| | |
|-----------------------------|---|
| Dimensions (W x H x D) | 137 mm x 77 mm x 17 mm |
| Power supply | 12 V DC to 24 V DC Power over Ethernet (only -PoE) |
| Power consumption | max. 7 W |
| Operating frequency | configurable in the range 865 MHz to 868 MHz (default) or 902 MHz to 928 MHz |
| Output power | configurable, 100 mW e.i.r.p. to 1.2 W e.i.r.p. in combination with antenna ID ISC.ANT.U270/270 |
| Antenna connection | 3 x external (SMA-Female - 50 Ω) 1 x integrated antenna |
| Interfaces | |
| - PoE | Ethernet (PoE) |
| - A | USB (full Speed), RS232-V24 |
| Supported Transponder | EPC Class1 Gen2 ISO 18000-6-C (optional) |
| Software-Protocol | FEIG Reader Protocol |
| Protocol-Modes | ISO Host Mode, Buffered Read Mode, Notification Mode (only -PoE) Scan Mode (only -A) |
| Extras | Temperature monitoring, RSSI |
| Temperature range | |
| Operation | -25 °C to 55 °C (12 V to 24 V) -25 °C to 45 °C (PoE) |
| Storage | -25 °C to 85 °C |
| Relative humidity | 5% to 95 % (non-condensing) |
| APPLICABLE STANDARDS | |
| Radio Regulation | |
| Europe | EN 302 208 |
| USA | FCC 47 Part 15 |
| Canada | RSS-210 Issue 8, RSS-GEN Issue 3 RSS-102 Issue 4 |
| Japan | ARIB STD-T107 |
| Brasil | Resolução Nº 506 |
| EMC | EN 301 489 |
| 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 |