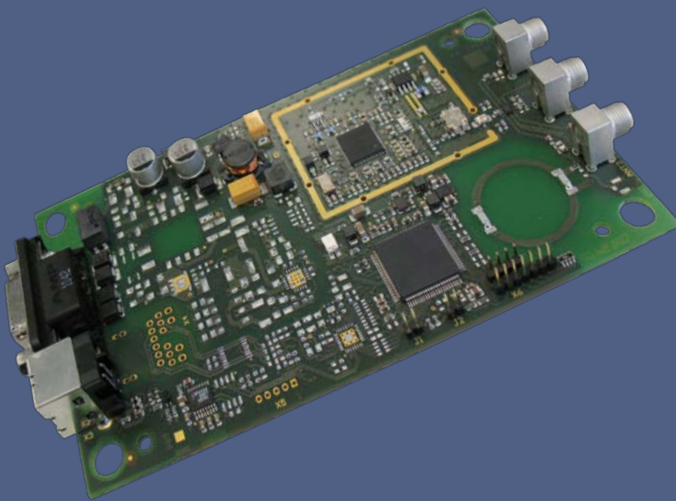# UHF Mid Range Reader Modules
ID ISC.MRMU102-PoE and ID ISC.MRMU102-A

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

FEIG ELECTRONIC

IDENTIFICATION

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

SHORT-DESCRIPTION

The UHF Mid Range Reader-Module ID ISC.MRMU102 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 (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
- Conntection 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	
- Europe	865 MHz to 868 MHz
- FCC	902 MHz to 928 MHz
Output power	50 mW to 500 mW, configurable
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	
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