

OBID i-scan® HF

HF Proximity Reader Module with integrated 8-times Multiplexer ID ISC.M02.M8



FEATURES

- Integrated Antenna Multiplexer
- Connection of up to 8 external antennas
- Multi-tag Reader for ISO15693
- Anti-collision function
- RSSI Data Readout



SHORT DESCRIPTION

ID ISC.M02.M8-B is designed as a reader module for contactless data exchange with passive ISO 15693 transponders. It is suitable for all applications where short read ranges with only a small reader size are required, such as for integration into medical devices.

The module has an integrated antenna multiplexer for the connection of up to 8 external antennas.

The reader module also reads RSSI data for localization of identified transponders.



ORDER DESCRIPTION

ID ISC.M02.M8-B HF Reader Module

TECHNICAL DATA

Dimensions (B x H x T)	87 mm x 50 mm x 14 mm
Weight	24 g
Connector	5-pin multipin plug Type MTA 100 AMP
Operating frequency	13.56 MHz
Transmitting power	200 mW ± 1 dB
Supply voltage	24 V DC +/- 10%
Current consumption	max. 100 mA
Power consumption	max. 2 W
Antenna connection	up to 8 external antennas (50 Ω) (Connector: U.FL-R-SMT or Multipin)
Interface	RS232 – Level LVTTTL (3.3 V)
Supported transponders	ISO 15693 (ISO 18000-3 MODE 1)*
Protocol mode	ISO Host Mode
EEPROM (for parameter)	1 kB (10.000 write cycles)
FLASH	64 kB (Firmware Update via interface possible)
Temperature range	
Operation	-20 °C up to 70 °C
Storage	-40 °C up to 85 °C
Relative air humidity	5...95 % (non-condensing)

* For example EM HF ISO Chips, Fujitsu HF ISO Chips, IDS Sensor Chips, Infineon my-d, KSW Sensor Chips, NXP I-Code, STM ISO Chips, TI Tag-it

STANDARD CONFORMITY

Radio approval	
Europe	EN 300 330
USA	FCC 47 CFR Part 15
Canada	IC RSS-GEN, RSS-210
EMC	EN 301 489
Safety	
Electrical safety	EN 60950
Human Exposure	EN 50364
Vibration	EN 60068-2-6 10...150 Hz: 0,075 mm / 1 g
Shock	EN 60068-2-27 Acceleration: 30 g

FEIG ELECTRONIC reserves the right to change specification without notice at any time.
Stand of information: June 2011.