



i-scan[®] UHF

**8-channel
UHF Multiplexer
ID ISC.ANT.UMUX-A**



8-channel Multiplexer for OBID i-scan[®] UHF readers with external antenna connector for operation of several antennas with one reader

Features:

- Communication between reader and Multiplexer via antenna cable
- Multiplexer outputs are controlled by a reader or host
- Wear-free electronic switching of the outputs
- Supply voltage for supplying external electronic devices via antenna cable
- High switching rate (< 1ms)
- Cascadable

Short description

The 8-channel UHF Antenna Multiplexer ID ISC.ANT.UMUX is used for switching of RFID antennas with operating frequencies from 860 – 960 MHz. With a ID ISC.ANT.UMUX, several antennas can be operated with only one reader.

It is possible to cascade several ID ISC.ANT.UMUX to improve the possible number of antenna connectors. That for, the Antenna Multiplexers can be addressed via DIP switch positions.

The Multiplexer is controlled via antenna cable to the reader, so there is no additional connection necessary. This enables an easy installation even if several Multiplexers will be cascaded.

At the same time, a targeted addressing of the antenna outputs is possible !



Technical data

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|----------------------------|--|
| Housing | Plastic ABS |
| Colour | black, transparent |
| Dimensions (BxHxT) | 85 x 145 x 27 mm 3.34 x 5.71 x 1.06 inch |
| Weight | 170 g |
| Protection class | IP 30 |
| Power supply | 12 - 24 V DC, +/- 10% |
| Power consumption | max. 200 mA |
| Operating frequency | 860 - 960 MHz |
| Allowed transmitting power | max. 4 W |
| Absorbability | max. 2,2 dB |
| Isolation | min. 28 dB |
| RF-connectors | |
| 1x Reader connector | SMA-socket (50 Ohm) |
| 8x Antenna connector | SMA-socket (50 Ohm) |
| Supply voltage | 7 V / 150 mA or 12...24 V / 150 mA |
| Indicators | 4 LEDs (diagnosis operation status) 8 LEDs (indication of active channel) |
| Temperature range | |
| - Operation | -25°C up to 55°C |
| - Storage | -25°C up to 85°C |

Standard conformity

| | |
|--------|--------------|
| EMC | EN 301 489-3 |
| Safety | EN 60950 |

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