

**8-channel
UHF Multiplexer
IDISC.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)
- Cascadeable

Short description and technical information

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

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 to 55°C
- Storage	-25°C to 85°C

Standard conformity

EMC	EN 301 489-3
Safety	EN 60950

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