

ID ANT.UMUX

8-TIMES UHF ANTENNA MULTIPLEXER

- Simple and easy installation and communication via the antenna cable; no additional control lines required
- Control of the antenna outputs either by the host or by the reader
- Power supply via the antenna cable possible
- Wear free electronic switching of the outputs
- High switching speed (< 1 ms)
- Cascade connection feature (up to 3 cascade levels) with up to hundreds of antennas



Do you need many reading points in a small space? No problem with the UHF antenna multiplexer from FEIG, that allows connection and control of several hundred antennas with a single reader.

Where many small reading points are required in a confined space, the multiplexer can provide a cost-effective solution without many readers. These requirements exist, for example, for shelf solutions (Smart Shelf) and in the area of logistics (eKanban / refill control).

It is possible to cascade the ID ANT.UMUX in up to three levels. Thereby it is possible to connect up to 512 antennas to one reader antenna output.

To use the cascade connection feature the different multiplexers can be addressed by DIP switch settings. The multiplexer is controlled via the antenna cable. No additional wiring effort and no extra control cable is required. This allows an easy installation of the hardware even if several multiplexers are cascaded. An individual addressing of each antenna is possible. Also the number of an antenna which has read the transponder can be achieved.

8-TIMES UHF ANTENNA MULTIPLEXER

Connect up to several hundred antennas to a reader at low cost – for smart shelves, eKanban etc.

Technical data

Dimensions (w x h x d)	85 mm x 145 mm x 27 mm
Weight	170 g
Housing	Plastic ABS
Color	black, transparent
Protection class	IP30
Operating frequency	860 MHz to 960 MHz
Supply voltage	12 V DC to 24 V DC $\pm 10\%$
Power consumption	max. 200 mA
Insertion loss	max. 2.2 dB
Isolation	min. 28 dB
Input power	max. 4 W
RF-Connector	
1x Reader input	SMA-Female (50 Ω)
8x Antenna output	SMA-Female (50 Ω)
DC-Coupling	- 7 V / 150 mA - 12 V DC to 24 V DC / 150 mA
Indicator, optical	4 LEDs (Diagnostic, operating state), 8 LEDs (Indication of active antenna output)
Temperature range	
Operation	-25 °C up to +55 °C
Storage	-25 °C up to +85 °C

Standard conformity

EMC	EN 301 489-3
Safety & Health	EN 62368-1, EN 50364

Order description

ID ANT.UMUX	UHF Antenna Multiplexer
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