

# hfMux-16 RFID HF Multiplexer

Art. no.:  
22000080



- Short Switching Time
- PLC compatible 24V Inputs
- Low System Costs

## hfMux-16 RFID HF Multiplexer

The hfMux-16 is our 16-port RFID multiplexer for HF systems with an operating frequency of 13.56 MHz and a maximum power of 4 W. It allows connecting up to 16 antennas to a single RFID reader. This reduces system complexity and setup costs in cases where many antennas are needed and also lowers hardware system costs as the number of readers needed decreases dramatically. The housing is suited for wall mounting and status LEDs show which antenna port is currently active. The device is powered using a standard 24V DC power supply.

The multiplexer works irrespective of the manufacturer of the readers and antennas used. Compatibility of the product with hardware from other manufacturers has been tested in our lab and in customer applications with various other reader brands.

The multiplexer is controlled with optically isolated 24V Inputs. These can be controlled especially well with our QuasarMX HF ISO Reader, QuasarMF Mifare Reader, and many other HF readers available on the market. Alternatively, standard industrial IOs as can be found in many automation environments can also be used to control the multiplexer directly from a process control system.



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### Technical Specification

Operating Principle	1 to 16 HF RFID Multiplexer
Operating Frequency	13.56 MHz (worldwide)
Antenna Connector	BNC
Insertion Loss	0.45 dB
Operating Voltage	24V DC
Switching Time	4 $\mu$ s typ.
Inputs/Outputs	3 optically isolated 24V DC inputs (to select antenna)
Temperature Range	-40 $^{\circ}$ C to +85 $^{\circ}$ C
Dimensions	190 x 104 x 39 mm / 7.5 x 4 x 1.6 inch

### About Metratec

Metratec develops, produces and sells Radio electronics for the areas of "Identification", "Localization", and "Communication" and thus serves a variety of markets with standard products as well special solutions. Customers include OEM customers, system integrators and research facilities worldwide.

