

metraTec® hyperMux-16 UHF-Multiplexer

The metraTec hyperMux-16 is an RFID multiplexer for UHF systems at 868 or 915 MHz operating frequency and an RF power of up to 4 W. It allows operating up to 16 antennas on a single antenna port. Especially when setting up complex reading arrangements this can reduce hardware costs substantially by saving additional readers and setup work.

The device works with antennas and readers from most manufacturers which allows extending already existing installations that use readers from other manufacturers. Due to its optically isolated 24V DC input pins the device can be controlled directly using a PLC or the IOs of most UHF readers. Additional LEDs that show which antenna is currently active facilitate installation and setup.

Applications

- Sequential reading of several areas (e.g. smart shelves)
- Location tracking using antenna arrays
- Complex UHF Gates for specialized applications

Other RFID Components by metraTec

metraTec has a comprehensive line of RFID products and allows setting up complete RFID systems with components that work together seamlessly. On the antenna side the hyperMux-16 can be matched with Echo series antennas or with up to four custom antennas to meet your requirements. The reader side can be connected e.g. to a PulsarMX - a mid-range UHF reader from metraTec suited for logistics and production scenarios.



Technical Specification

Working Principle	1 to 16 UHF Multiplexer
Operating Frequency	868/915 MHz and 2.4 GHz
max. UHF Input Power	4 W
Antenna Connector	SMA (others on request)
Operating Current	24 V DC
Power Consumption	40 mA typical
Insertion Loss, typ.	1.5 dB @ 900 MHz
Control	optically isolated 24V DC input pins
Switching Time	1 μ s typical
Operating Temperature	-40° C to +85° C
Housing, Dimensions	Aluminium, 190 x 120 x 55 mm
Ingress Protection	IP40 (higher on request)
Other Features	Status LEDs, hot-switchable

At a Glance

- Simple installation and control
- Compatible with most UHF readers
- High switching speed

About metraTec

metraTec develops, manufactures and sells RF hardware for the product segments „Identification“, „Localization“, „Communication“ and „Wireless Power“. It serves a variety of industries, both with standard products as well as custom solutions. Our customers are system integrators, OEM customers as well as research institutes world wide.

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