

Datasheet Echo-8P UHF Antenna

Art.-No.: 2200 0085

metraTec® Echo-8P UHF Antenna

The Echo-8P is a compact circularly polarized UHF RFID antenna for the European UHF RFID frequency range at 868 MHz. With a gain of approx. 8 dBic and an angular width of 60° the antenna may be operated with up to 2 W ERP allowing reading distances of up to 7 m.

The size is only $90 \times 300 \times 20$ mm not counting the SMA connector at the bottom. The housing is made from POM (polyoxymethylene) which has excellent mechanical properties and is resistant to many chemicals.

The antenna can be mounted directly to a wall using the two mounting holes at the side. Alternatively, a wall bracket is available for increased flexibility in adjusting antenna alignment.

Applications

- With 60° beamwidth it is ideal for UHF gates
- Applications with limited available space
- Mounting between the forks of forklifts

Further RFID Components by metraTec

metraTec offers a comprehensive set of RFID products that enables its customers to set up RFID systems whose components work together seamlessly. The Echo-8P UHF antenna e.g. works in combination with the hyperMux-4 UHF multiplexer which enables you to connect up to four Echo-8P antennas to a single antenna port. On the reader side you can connect any UHF reader on the market supporting the European frequencies as long as the permitted power limits are not exceeded.





Technical Specification

Operating Principle	Circular Polarized UHF Patch Antenna
Resonance Frequency	868 MHz (UHF RFID, Europe)
Bandwidth (-10 dB)	858 - 877 MHz
Polarization	RHCP (Right hand circular polarized)
3 dB Angular Width	62°
Antenna Gain	approx. 8 dBi circ.
Nominal Impedance	50 Ohm
Axial Ratio	< 3 dB
Max. RF Power (acc. to ETSI)	2 W ERP (*)
Dimensions	90 x 300 x 20 mm
Connector	SMA, female

^(*) Maximum permitted output power of the reader must be calculated according to EN 302 208, Section 8.3.2.2 "Conducted measurement".

At a Glance

- Comparatively small form factor
- Robust housing
- Great size/performance ratio

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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