

# Echo-5P UHF RFID Antenna

Art. No.: 22002005

The Echo-5P is one of the most compact circularly polarized UHF RFID antennas for the European UHF RFID frequency range at 868 MHz available today. With a gain of approx. 5 dBic and an angular width of 100° the antenna may be operated with up to 500 mW ERP allowing reading distances of up to 4 m (depending on reader power and transponder). This is especially useful when you need to read a broad area with only limited available space.

The size is only 90 x 105 x 30 mm not counting the Reverse-TNC connector at the bottom. The housing is made from Nylon (PA6) with 30% glass fibre 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, mounting holes in the back at 50 x 50 mm allow the use of a standard VESA mounting kit.



- ◎ Wide opening angle
- ◎ Compact IP65 housing
- ◎ R-TNC connector

## Technical Specification

<b>Operating Principle</b>	Circular Polarized UHF RFID Patch Antenna
<b>Operating Frequency</b>	868 MHz (UHF RFID, Europe)
<b>Antenna Connector</b>	R-TNC
<b>Bandwidth</b>	850 – 880 MHz
<b>Polarization</b>	RHCP
<b>Antenna Gain</b>	approx. 5 dBi circ.
<b>3 dB Angular Width</b>	approx. 100°
<b>Impedance</b>	50 Ohm
<b>Ingress Protection</b>	IP65
<b>Temperature Range</b>	-20 °C to +75 °C
<b>Dimensions</b>	90 x 105 x 30 mm (without R-TNC connector)

For a complete RFID solution, combine this antenna with our PulsarMX or PulsarLR RFID Reader/Writer and the right coax cables with R-TNC connector.

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### About Metrattec

Metrattec is a manufacturer of RF electronics specialized in wireless “Identification” (RFID) and “Localization” (RTLS). We serve a variety of markets from the manufacturing industry and logistics to vending machines and medical devices. Our customers include OEM customers, IoT system integrators and research facilities worldwide.

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