

# Echo-6P UHF RFID Antenna

Art. No.: 22001521

The Echo-6P is a compact circular UHF RFID antenna for the European frequency range of 868 MHz. With an antenna gain of 6.5 dBic and an opening angle of approx. 84° you can operate this antenna with up to 33 dBm ERP. This will give you a read range of 6-12 m with standard UHF transponders and a high power RFID reader.

The dimensions of the compact housing are 160 x 165 x 30 mm (plus the R-TNC antenna connector at the bottom). The housing is IP65 rated (dust and waterproof).

In the back, the housing is closed by a solid aluminum plane that shields the antenna against unwanted influences from the surrounding environment. The backplane has riveted threads that can be used to mount the antenna with any 100 x 100 mm VESA-compatible mount.



- ◎ 6.5 dBic antenna gain
- ◎ 84° 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. 6.5 dBi circ.
<b>3 dB Angular Width</b>	approx. 84°
<b>Impedance</b>	50 Ohm
<b>Ingress Protection</b>	IP65
<b>Temperature Range</b>	-20 °C to +75 °C
<b>Dimensions</b>	160 x 165 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 Metratec

Metratec 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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