



MiniPCB Antenna



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metraTec® HF PCB Antenna Family

This family of printed circuit board antennas comprises several antenna products with an operating frequency of 13.56 MHz (HF RFID). With the standard types MiniPCB (40 x 70 mm), MidiPCB (120 x 120 mm) and MaxiPCB (250 x 250 mm) it is possible to create a variety of application using standard components. With a reading range of up to 100, 250 resp. 400 mm many scenarios are covered by this product line. If you need special dimensions, you can use our HF antenna design service. With this you can get antennas of almost any shape and size which are 100% customized to your needs.

On request, all our antennas can be manufactured on a flexible material (0.8 mm thickness). The result is an antenna with the smallest possible volume which is easy to install at the same time.

Applications

- Integration into machines (OEM systems)
- Integration into contactless access control systems
- Integration into furniture („smart shelves“)

Further Componentes by metraTec

metraTec offers a comprehensive set of RFID products that enables its customers to set up RFID systems whose components work together seamlessly. All PCB antennas interface perfectly with our range of HF multiplexers, which enables you to connect up to 16 antennas to a single reader. To power these antennas you can use e.g. our QuasarSR or QuasarMR1 readers, depending on the required reading range or any other reader by .

Technical Specification

Operating Principle	HF RFID PCB Antenna
Operating Frequency	13.56 MHz
System Impedance	50 Ohm
max. HF power	2 W
Antenna Connector	BNC (others, e.g. SMA on request)
Temperature Range	-40 °C to +85 °C
Dimensions	40 x 70 mm (MiniPCB) 120 x 120 mm (MidiPCB) 250 x 250 mm (MaxiPCB) (others on request)
Max. reading range with appropriate RFID reader	100 mm (MiniPCB) 250 mm (MidiPCB) 400 mm (MaxiPCB)
Ingress Protection	none (housing on request)

At a Glance

- Cost optimized design
- Individual dimensions possible
- Integration into OEM hardware

About metraTec

metraTec is a producer of a comprehensive line of RFID products as well as similar electronic equipment. As such, we are able to deliver the entire hardware needed for your RFID projects from one single source - filling the gap between the tag and your software infrastructure.

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