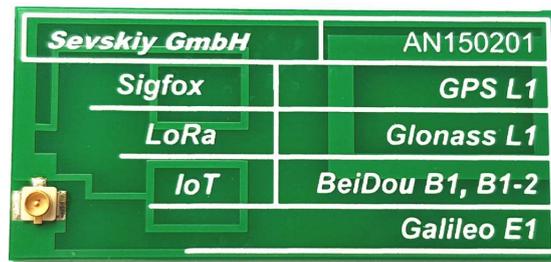


868 MHz / 915 MHz / 1575 MHz / 2 GHz PCB Antenna (ISM, IoT, Sigfox, LoRa, GNSS, 3G)



**General information**

This antenna is intended to be used within a plastic housing of a mobile device or a gateway. The antenna geometry can be optimized for customer's housing design and material properties.

**Typical applications**

ISM, RFID, IoT (Sigfox, LoRa), GNSS, LP-WAN, Smart meters, 3G (UMTS)

**Electrical data**

Antenna type	Embedded PCB antenna
Frequency ranges	860...925MHz / 1559...1610MHz / 1.9...2.2GHz
Nominal input impedance	50 Ohm
Return loss	-8 dB / -6 dB / -5 dB
Maximum gain	1.2 dBi / 1.4 dBi / 1.1 dBi
Radiation efficiency	52 % / 60 % / 49 %
Polarization	linear
Radiation pattern	omnidirectional
Maximum input power	10 W

**Mechanical data**

Antenna dimensions (without SMT connector)	43 mm x 20 mm x 1 mm
Connector type *	IPEX MHF1 / U.FL (UMCC) compatible *
Recommended cable type and thickness **	microcoax 1.13 mm **
Recommended cable length ***	200 mm ***
PCB material	FR4
PCB colour	green

**Environmental data**

Ambient operating temperature	-40°C to +85°C
Storage temperature	-40°C to +85°C
Ambient relative humidity	40% to 95%
RoHS compliant	Yes

**Additional information**

- \* Other connector or cable connection types can be offered on request.
- \*\* Following thicknesses can be used with IPEX connector: 0.81mm, 1.13mm, 1.32mm, 1.37mm.
- \*\*\* Other cable types and lengths can be used. Cable is not included.
- Other mechanical or material changes or frequency bands are possible on request.
- The antenna can be additionally equipped with adhesive tape and mounting holes.

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