

**Block diagram with function description**

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As shown in figure, 1 the RFID reader generates a 13,56 MHz electromagnetic field via the antenna (1). When entering this field, the transponder tag damps the field. The wireless interface to the Tag complies with ISO EN15693 specifications.

The Antenna is energized via the matching network (2). The Antenna is an internal PCB-Antenna directly connected to the main PCB. The Antenna is not exchangeable.

When the tag sends data, the field is more or less strained. This is measured by the reader IC (3) and transmitted as a encoded bit stream to the microcontroller (4). The microcontroller operates at 8 MHz clock frequency. On request, the device sends this data to a server.

The Power supply converts the external 24V supply voltage to the supply voltage for all internal function blocks.

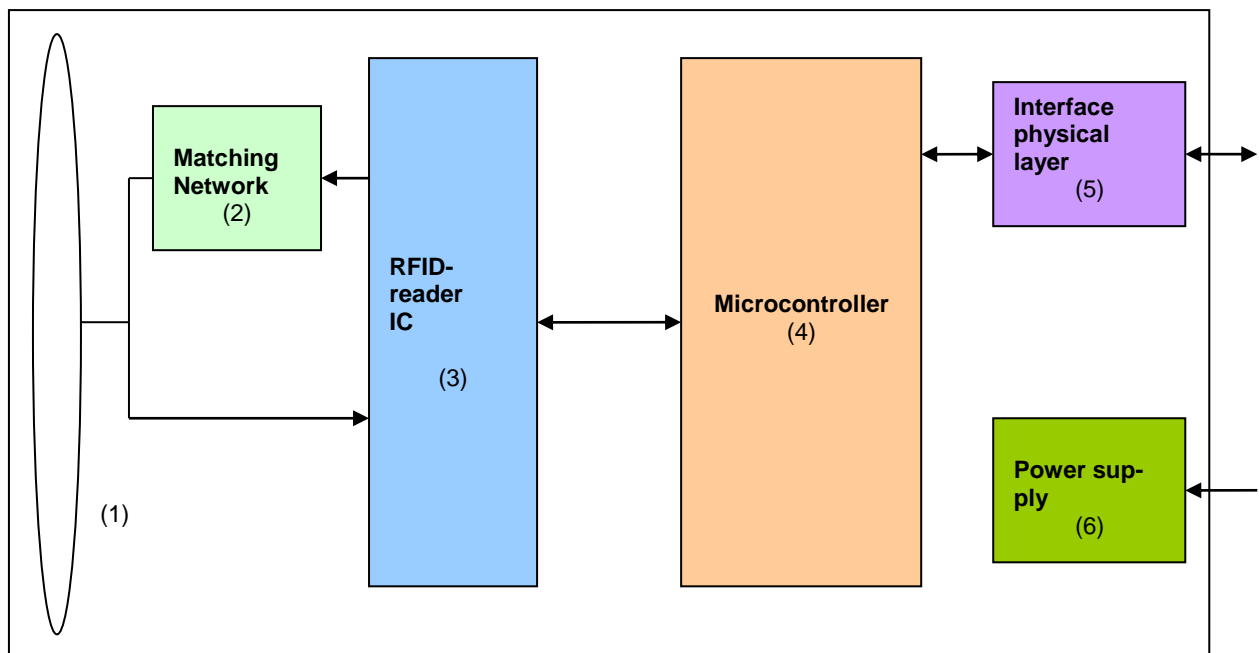


Abbildung 1: block diagram