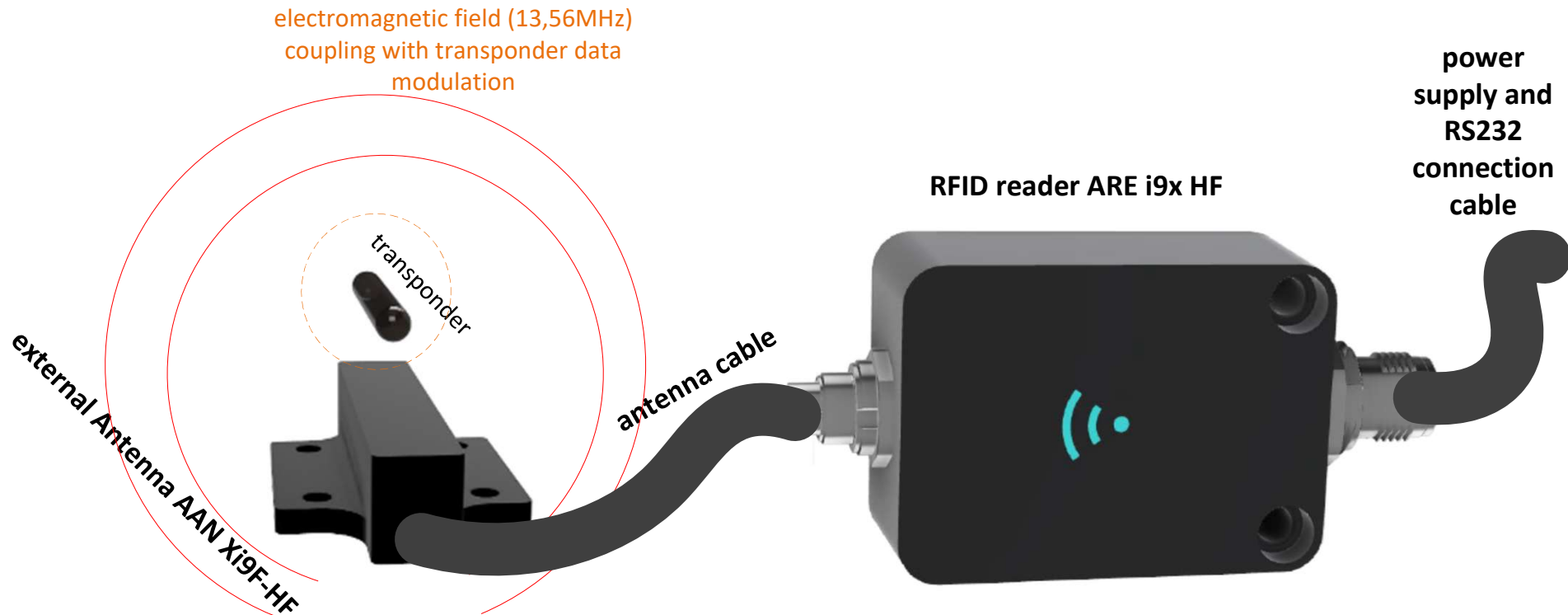


Operational Description - RFID Reader ARE i9x HF V7IAREI9XHF

AEG ID

03.13.2022, FW, Rev 1



The passive transponder is powered by the energy of electromagnetic field generated by the external reader antenna, powered by the RFID reader. This happens, when the reader receives a command to the read transponder data and the transponder is within the interrogation zone (coupling area of the electromagnetic field).

The transponder transmits its data (identification information, memory content) by modulation on the coupled electromagnetic field (ASK), serially coded. The reader receives via the antenna the signal, filters, amplifies and demodulates the signal in its hardware receiver stage.

The data is extracted from demodulated signal by the CPU and processed according to the coding format of the specific transponder used. The decoded data (identification information, memory content) is sent to the data processing host via RS232 connection.