

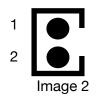
One-wire temperature sensor:

The one-wire temperature sensor can be connected to J14, see image 1



J14, 2-pin connector

There are two versions of the one wire connection. Older units will have the 2-pin connector and therefore need an extra power supply which can be connected to J13 pin 3.



Pin 1 = 1-wire protocol compatible with DS18B20

J14, 4-pin connector

The newer ED1608 boards have a 4-pin connector for the one-wire sensor.

Pin 2 = GND

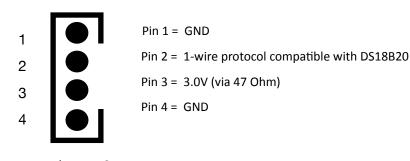


Image 3

Image 1

ED1608 Application note #001

Interface connections

Interface connections on J13 (see images 4 and 5):

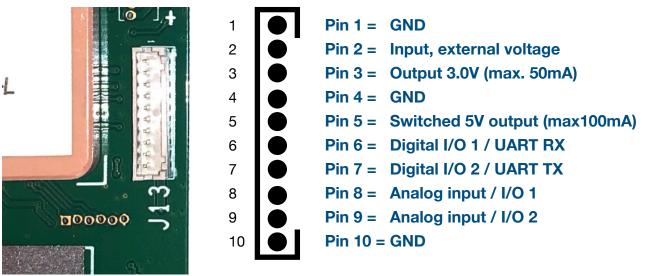


image 4

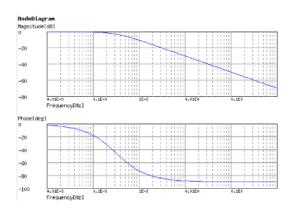
All voltages max. 5V except pin 2, max 5,5V

image 5

Analog inputs:

Pin 8 and 9 are analog inputs. Warning! Both inputs are equipped with an overvoltage protection, so do not connect voltages higher than 5V.

Input impedance of both analog inputs is 400KOhm to ground. The circuit has a 1st order low-pass filter with -3dB at 300Hz.



4-20mA input circuit example for analog pin 9:

image 6

To connect a 4-20mA sensor to the ED1608 you can use one of the analog pins in combination with a 200 Ohm resistor (100mW). On request 1M2M can deliver this special cable.

