

# TRB246 Powering Options

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This chapter contains information on **powering options** supported by TRB246 devices.

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## Power socket

The TRB246 device can be powered over the 4 pin connector using a 9-30 VDC power supply unit (PSU). Refer to the image below for the power socket pinout information:

### 16 Pin Terminal Block Power Pinout

No.	Description	Wire color
1	Power positive pin	Red
2	Power negative pin	Black



If you decide not to use the standard 9 VDC PSU and want to power the device from a higher voltage, please make sure that you choose a power supply of high quality. Some power supplies can produce voltage peaks significantly higher than the declared output voltage, especially during connection and disconnection.

While the device is designed to accept input voltage in the range of 9-30 VDC, high voltage power supplies can harm the device. If you want to use high voltage power supplies it is recommended to also use additional safety equipment to suppress voltage peaks from the power supply.

## Ground loops

Do not connect the power supply negative terminal of our device to the chassis or earth exclusively.

This connection could cause ground loops. For example, if the antenna shield and power supply negative terminal are connected to the chassis or earth, it forms a ground loop, therefore unwanted current could flow through a device PCB ground and may cause damage.

