

RUTXR1 Powering Options

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This chapter contains information on **powering options** supported by RUTXR1 routers.

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Power socket

The router has a 4 pin power socket and can be powered by a **9-50 VDC** power supply unit (PSU). Refer to the image below for the power socket's pinout information:

Power socket pinout

No.	Description	Wire color
1	Power	Red
2	Ground	Black
3	Input	Green
4	Output	White



If you decide not to use the standard 9 VDC wall adapter and want to power the device from a higher voltage (15-50 VDC), 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 of up to 50 VDC peaks, 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.

Simultaneous powering

The device can be powered from both its power sockets simultaneously. The power socket with "M" marking (standing for "Main") has higher priority meaning that the device will draw power from the power socket as long as it is available.

When the device is switching from one power source to another it loses power for a fraction of a second and may reboot. The device will function correctly after the reboot.