TRB500 LEDs

This page contains information the different types of LEDs and their behaviour on a TRB500 device.

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Power LED

The **power LED** is located on the bottom left corner of the front panel, just under the power connector.

It indicates whether the device is powered on or not.

State	Description
LED turned on	Device is powered on.
LED turned off	Device is not powered on.

Ethernet port LEDs

There are two **LEDs** located at the top of each **Ethernet port**.

They provide information on the current states of the Ethernet ports. Each port has two LEDs:

- **Orange** - 10/100 Mbps connection
- **Green**- 1000 Mbps connection

Below is an explanation on the behaviours of green and orange LEDs.

State	Description
LED on	A data connection on the port is operational (cable plugged in, end device visible, no data is being transferred).
LED off	No data connection on the port is operational (no cable, bad cable or end device not visible for some other reason (such as damaged network card).
LED blinking	Connection established and data is being transferred over this port.

Mobile network type LEDs

The **mobile network type LEDs** are located near the SIM card slot.

They display which type of Internet connection is currently active.

Action	Description
3G LED turned on	Device is connected to a 3G network.
4G LED turned on	Device is connected to a 4G network.
5G LED turned on	Device is connected to a 5G network using 5G SA.
4G and 5G LEDs turned on	Device is connected using 5G NSA.
3G blinking	Device is connected to a 3G network but hasn't received an IP address.
4G blinking	Device is connected to a 4G network but hasn't received an IP address.
5G blinking	Device is connected to a 5G network but hasn't received an IP address.
All LEDs blinking at the same time every 500 ms	No SIM card or incorrect PIN.
All LEDs turn on and off in a sequence one after the other	The device is attempting to connect to a mobile network operator.

Mobile signal strength indication LEDs

The **mobile signal strength indication LEDs** are located near the SIM card slot.

The number of lit up LEDs represents a different mobile signal strength (RSSI) value in dBm.

No. of lit up LEDs	Signal strength value
0	≤ -111 dBm
1	-110 dBm to -82 dBm
2	-81 dBm to -52 dBm
3	≥ -51 dBm

The Mobile signal strength LEDs can also be used as a **time indicator for holding the reset button**. When you press and hold the reset button, if there is a User's default configuration configured on the device, you have to hold it pressed for 6 seconds (by default) to initiate a **User's default configuration reset** and 12 seconds (by default) to initiate a **Factory reset**. Otherwise, it is only necessary to hold the reset button for 6 seconds to trigger a **Factory reset**. If the button was held down longer than 20 seconds (by default) no action will be taken.

While holding the reset button each lit up signal strength LED indicate that a period of two seconds has passed. In case with **TRB500**, when all 3 Mobile signal strength LEDs are lit up, they represent that 6 (LED number multiplied by 2) seconds have passed since you pressed down on the reset button.

After releasing the button at one of the reset periods, all 3 LEDs will start blinking every 1 second. This signifies that the router **has begun the reset**.