

Indicators

There are three LED indicators on the front of the ezeio. These can provide valuable information about the status of the unit and how the communication is working.

Indicator	Purpose
Ethernet	Shows the status if the Ethernet connection
Cellular	Shows the status of the cellular wireless connection
Server	Shows the status of the server communication and if the internal logic is running

If neither the Ethernet or the Cellular connection is successful, the connection to the server is not possible, so the Server LED will only be green if at least one of the Ethernet or Cellular connection are also green.

Startup sequence

Immediately on startup or reset, the LED's will show a green/red 'running' pattern for a few seconds.








If during startup the Ethernet and Cellular LED's flash RED rapidly while the Server LED is off, this means the input voltage is too high (>30 VDC).

If during startup the Cellular and Server LED's flash RED rapidly while the Ethernet LED is off, this means the input voltage is too low (<10.5 VDC).


Normal operation











During normal operation, each of the LED's will indicate the status if it's resource independent of the other LED's. Please check each LED's pattern against the below tables.

The ETHERNET indicator





	OFF	No Ethernet (physical) connection
	GREEN	Ethernet connection established
	slow RED blink	Ethernet connection disabled (in software)
	RED - RED - RED - pause	Waiting for DHCP server
	RED - RED - GREEN - pause	Fixed IP set. Looking for DNS.
	RED - GREEN - GREEN - pause	DHCP address acquired. Looking for DNS.
	slow GREEN blink	Fixed IP set. No gateway programmed. LAN comm only.

The CELLULAR indicator

	OFF	Cell modem is off / not available
---	-----	-----------------------------------

	GREEN, short off 1-5 times	Connected to network. 1-5 signal quality (5 is best)
	fast RED blink	Cell modem powered off by software
	short RED pulse 1s apart	Trying to start up cell modem
	short RED pulse 20s apart	SIM not detected / faulty / locked
	RED - RED - RED - pause	Searching for cellular carrier network
	RED - RED - GREEN - pause	Network found. Trying to register.
	RED - GREEN - GREEN - pause	Registered with network. Trying to get data connection.
	RED - GREEN alternating	Cellular connection lost. Trying to re-establish.
	RED	Cellular connection lost. Waiting to reconnect.
	RED slow blink	Cellular connection lost. Required to back off before retrying.

The SERVER indicator

	fast RED blink	No connection to server. Logic is not active.
	RED	No connection to server. Logic is running.
	fast GREEN blink	Connected to server. Logic is not active.
	GREEN	Connected to server. Logic is running.

It is normal that the server LED will flicker while green. This indicates normal communication activity.

Button function during startup

The button on the ezeio can be used to override normal startup.

DEFAULT COMMUNICATION SETTINGS

To force default communication settings (Ethernet DHCP and default cell modem settings), simply hold the button while power is applied, and keep holding the button until the LED startup roll is finished. Then release the button. This will also prevent any scripts and drivers to run.

The ezeio will revert to the programmed settings after the next reset.

KNOWN/FIXED ETHERNET IP

The Ethernet IP setting can be forced to 192.168.1.77 by holding the button when power is applied, but release the button during the LED startup roll. This only affects the Ethernet IP address. All other functions operate as normal.

The ezeio will revert to the programmed settings after the next reset.

HALT SCRIPTS AND DRIVERS

By pushing down the button during the startup roll, and holding it until the roll completes, the ezeio will start without running any scripts or drivers. The scripts can be started again by pushing the button once, or by restarting the ezeio.

STOPPING SCRIPTS DURING RUNTIME

The scripts and drivers can be stopped any time during runtime by clicking the button twice. To restart the scripts and drivers, push the button once. If the ezeio is restarted the scripts will still start normally.

From:

<https://doc.eze.io/> - **ezeio documentation**

Permanent link:

<https://doc.eze.io/ezeio2/indicators/start>

Last update: **2023-10-23 23:27**

