



Controlling the ezOutlet3

Tech Note MSNTN02



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Document Revision History:

Date	Comments
Dec 11, 2020	First release

This TechNote Applies Only to the ezOutlet3 Models:

EZ-62b

Introduction

The ezOutlet3 from Mega System Technologies, Inc ("MegaTec") is designed to automatically power-cycle any AC powered device when Internet connectivity is lost. Its AC power outlet can also be reset manually or via scheduled actions.

There are 5 ways to access and control the functionality of the ezOutlet3:

1. The ezOutlet3's internal web server screens
2. ezDevice smartphone app
3. Cloud4UIS.com web service
4. A REST-ful API for HTTP commands
5. The Netility utility software

1. Internal Web Server

Access to the ezOutlet3's functionality is available via its internal web server pages. To access the web server, enter the ezOutlet3's IP address into any web browser.

http://<ip-address-of-ezOutlet3>
e.g. http://192.168.1.33

The default username for the ezOutlet3 is "admin".

The default password is the last 6 characters of the ezOutlet3's MAC address (upper case). See the ezOutlet3 bottom label for the MAC address.

If you do not know the IP address of your ezOutlet3, check your DHCP server log or use the Netility utility software to scan for the ezOutlet3 (see page 10).

Status >> Network Settings Schedule Ping Address Time Save/Restore	Name:	EZU-0D34E1	DHCP:	On
	IP Address:	192.168.0.70	DNS Mode:	Auto Acquire
	Mask:	255.255.255.0	DHCP Assign:	192.168.0.1
	Gateway:	192.168.0.1	DNS 1:	8.8.8.8
	MAC:	00:03:EA:0D:34:E1	DNS 2:	208.67.222.222
	<hr/>			
	Time / Zone:	20:56 / GMT+0:00	Date:	2020/12/11 (Fr)
	Daylight Saving Time:	~		
	<hr/>			
	Cloud4UIS: Enabled (Online)			
Ping Address:	Default	Response:	21ms	
<hr/>				
Outlet Status:	On	Outlet Mode:	Auto Reset	
Outlet Control:	<input type="button" value="Off"/> <input type="button" value="Reset"/>			
<hr/>				
SN:	3926734049	Ver:	EZU.A504 (06)	

2. ezDevice Smartphone App

Download and install the free ezDevice app for iOS from the Apple AppStore or for Android from Google Play.



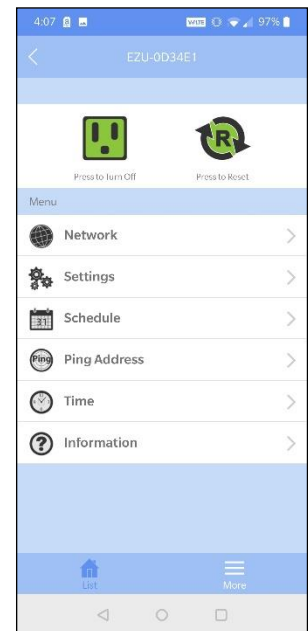
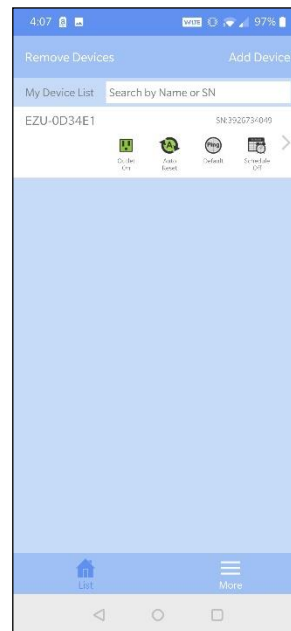
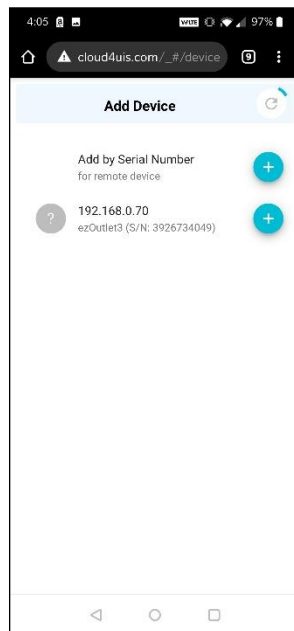
ezDevice
MegaTec
Free

If possible, connect your smartphone via WiFi to the same LAN as the ezOutlet3. This is the fastest and easiest way to add the ezOutlet3 to ezDevice.

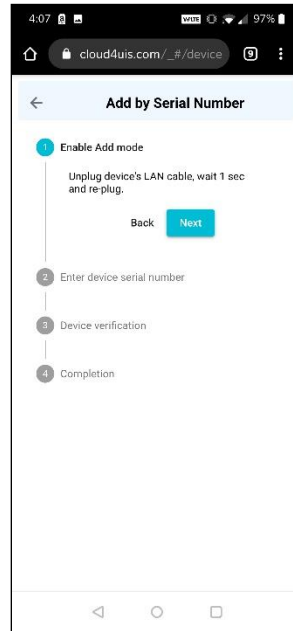
Launch the ezDevice app and create a new account. This same account information will be used for the Cloud4UIS.com web service (see page 5).

Tap **Add Device** on the top right of the screen. ezDevice will scan your LAN for the ezOutlet3. If found, tap the + icon to add the ezOutlet3. Enter the **Device ID** printed on the bottom label of the ezOutlet3. Tap **Done** to return to the main screen.

Once the ezOutlet3 has been added, return to the main ezDevice screen. Tap the ezOutlet3 in the list of devices to change settings.



If you cannot connect your phone to your LAN, then choose the **Add by Serial Number** option under **Add Device**.



Follow the instructions on the screen. Remove the LAN cable from the ezOutlet3 for 1 second, then replace it. Check that the Cloud Link LED is flashing. This is “Add Mode” which must be active to manually add the ezOutlet3 to ezDevice.

Enter the ezOutlet3 Serial Number and Device ID when prompted.

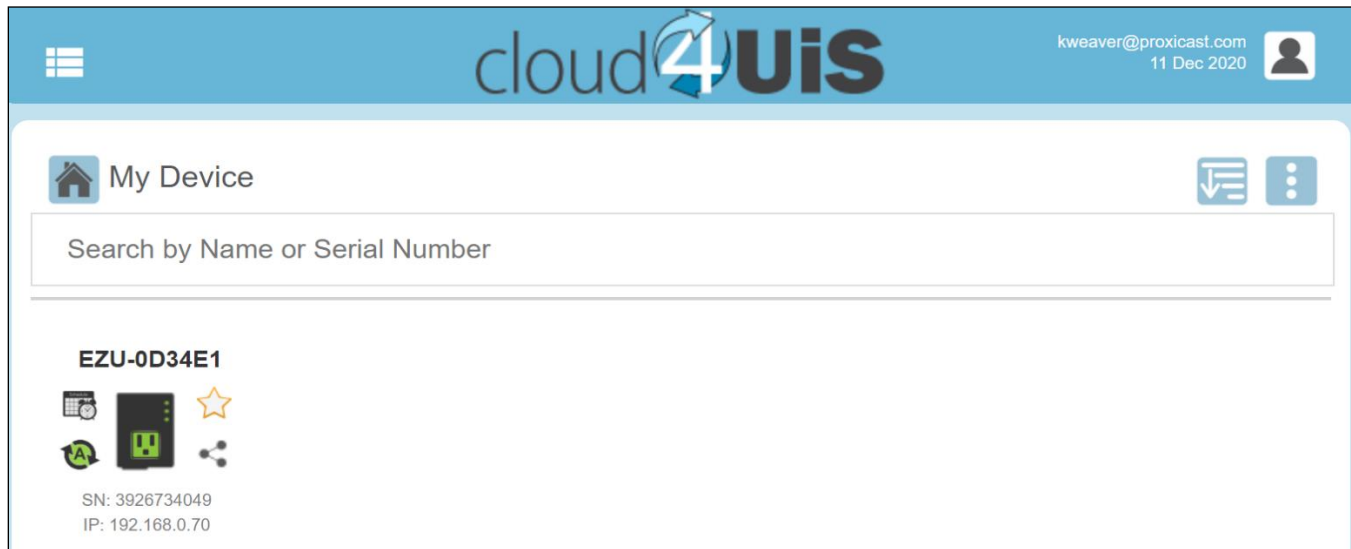
3. Cloud4UIS.com Web Service



Open the Cloud4UIS.com web site using any web browser:

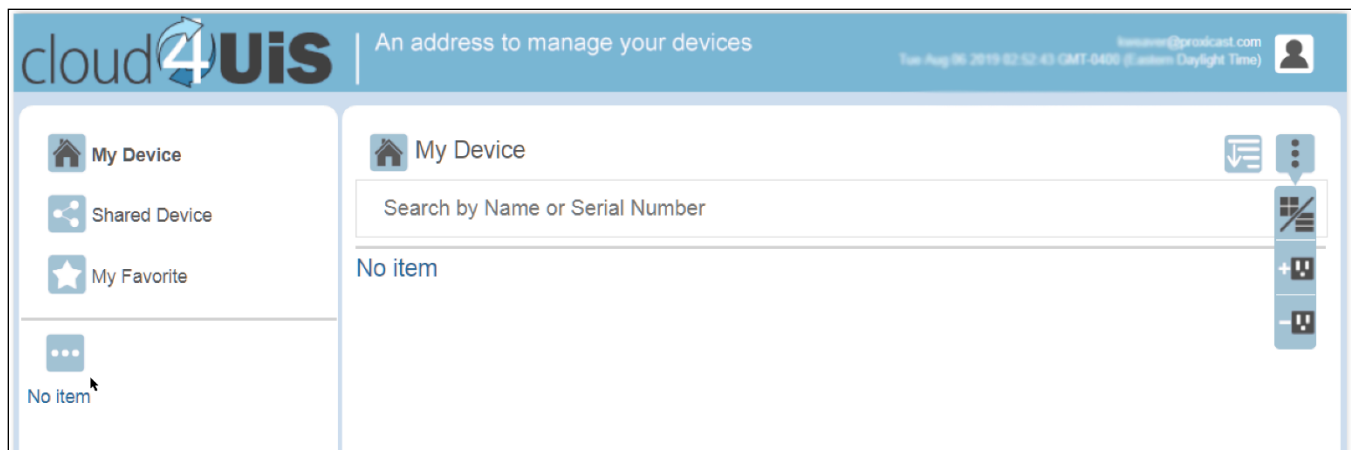
<http://Cloud4UIS.com>

If you do not yet have an account, create one on the site. If you previously created an account using ezDevice, use the same login credentials for Cloud4UIS.com. The Cloud4UIS service is free.

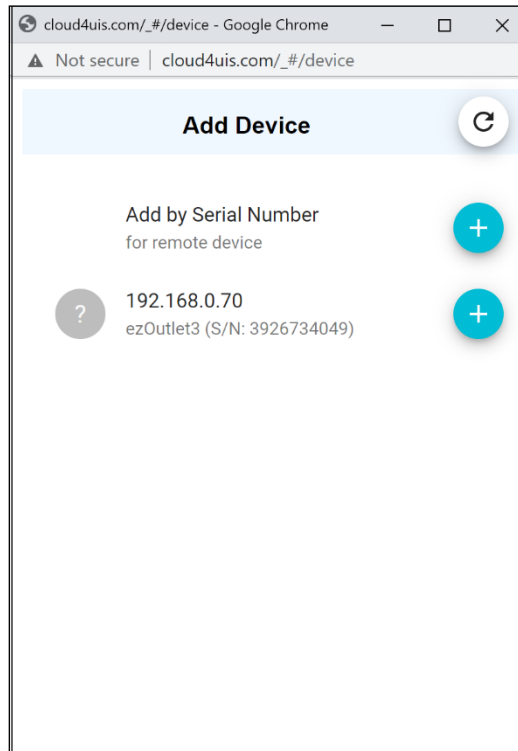
If you used ezDevice to add devices, they will appear in your Cloud4UIS account automatically.



If you are adding a device for the first time, click the vertical dot icon  in the upper right corner and then select the Add icon  to open the Add Device screen.



The Add Device screen works the same as it does in the ezDevice smartphone app. If your PC is in the same LAN as the ezOutlet3, you will be able to select it from the list. If your ezOutlet3 is not shown, manually enter its serial number to proceed.



See the ezDevice section on page 3 for instructions on completing the device add procedure. Devices added through Cloud4UIS.com will also be automatically synchronized with the ezDevice app.

4. REST API

Basic functions of the ezOutlet3 can be controlled through a series of HTTP Packet Requests.

Examples in this section are shown using cURL for Windows. Any software capable of sending and processing HTTP packets can be used.

Turn Outlet On/Off

HTTP Packet Request

```
"GET" <target> "HTTP/1.1"CRLF
"Host:" <host ip>CRLF
"Keep-Alive: 300"CRLF
"Connection: keep-alive"CRLF
"Authorization:Base" <auth>CRLFCRLF ;auth:encoded account(admin:1234) with base-64
HTTP URL: "http://< IP>/cgi-bin/control.cgi?<auth>&<action>"
```

Request Description:

IP:

The IP Address of the ezOutlet3

Auth:

user=<Web Account>

passwd=<Web Password>

Action:

```
target=<0/1>;
    0 means outlet mode,
    1 means outlet
control=<0/1/2/3>;
    0 means off,
    1 means on,
    2 means switch (i.e. from On → Off, or from Off → On),
    3 means reset (Outlet only)
```

Packet Response:

XML format:

```
"<?xml version='1.0'?>"
"<request>"
"<outlet_status>{outlet_status}</outlet_status>"
"<outlet_mode>{outlet_mode}</outlet_mode>"
"</request>"
```

XML Description:

outlet_status: 0 = off, 1 = on

outlet_mode: 0 = manual control, 1 = auto reset

EXAMPLE: Turn outlet off

```
curl "http://192.168.0.70/cgi-bin/control2.cgi?user=admin&passwd=0D34E1&target=1&control=0"
```

OUTPUT

```
<?xml version='1.0'?>
<request>
<outlet_status>0</outlet_status>
<outlet_mode>1</outlet_mode>
</request>
```

Get the Status of the ezOutlet3**HTTP Packet Request**

```
"GET" <target> "HTTP/1.1"CRLF
"Host:" <host ip>CRLF
"Keep-Alive: 300"CRLF
"Connection: keep-alive"CRLF
"Authorization:Base" <auth>CRLFCRLF ;auth:encoded account(admin:1234) with base-64
HTTP URL: "http://<auth>< IP>/xml/outlet_status.xml"
```

IP:

The IP Address of the ezOutlet3

Auth:

<Web Account>@<Web Password>

XML format:

```
"<?xml version='1.0'?>"
"<request>"
  "<site_ip>{site}</site_ip>"
  "<site_mode>{site_mode}</site_mode>"
  "<site_lost>{site_lost}</site_lost>"
  "<outlet_status>{outlet_status}</outlet_status>"
  "<outlet_mode>{outlet_mode}</outlet_mode>"
  "<ping_delay_after_power_on>{ping_delay_after_power_on}</ping_delay_after_power_
on>"
  "<power_on_delay>{power_on_delay}</power_on_delay>"
  "<no_of_reset>{no_of_reset}</no_of_reset>"
"</request>"
```

XML Description:

```
site: uuu.uuu.uuu.uuu or google.com
site_mode: 0 = http, 1 = ping
site_lost: 0 = ping successful, 1 = ping failed
outlet_status: 0 = off, 1 = on
outlet_mode: 0 = manual control, 1 = auto reset
ping_delay_after_power_on: number, range 0 ~ 1440
power_on_delay: number, range 3 ~ 240
no_of_reset: 1 ~ 10, 0 = unlimited
```

EXAMPLE: Get Status

```
curl "http://admin:0D34E1@192.168.0.70/xml/outlet_status.xml"
```

OUTPUT

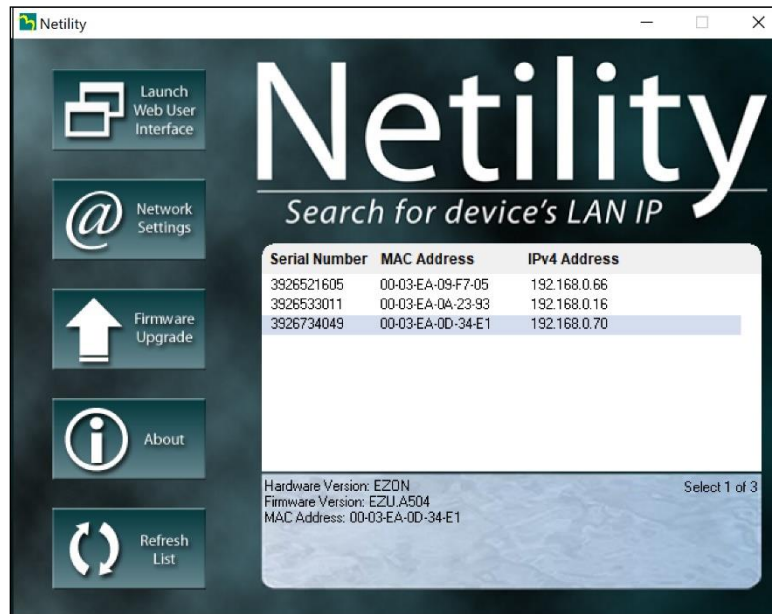
```
<?xml version='1.0'?>
<request>
<site_ip></site_ip>
<site_mode>1</site_mode>
<site_lost>0</site_lost>
<outlet_status>0</outlet_status>
<outlet_mode>1</outlet_mode>
<ping_delay_after_power_on>0</ping_delay_after_power_on>
<power_on_delay>3</power_on_delay>
<no_of_reset>1</no_of_reset>
</request>
```

5. Netility Utility

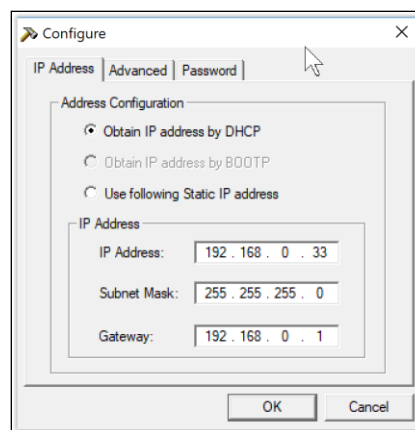
MegaTec provides a software utility for Windows and MAC called Netility that scans your LAN for compatible devices and allows you to change some configuration settings without accessing the internal web server pages.

Download and install the Netility utility (Windows or MAC) from the www.MSNSwitch.com web site's Download page.

Connect the ezOutlet3 to the same Ethernet LAN as your PC. Open Netility and it will scan the LAN for any MegaTec devices and list them in its main window.



The **Network Settings** button allows you to configure the IP address and related network parameters of the ezOutlet3 as well as set the password. The **Launch Web User Interface** will open the ezOutlet3's internal web server in your default browser.



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