



Controlling the ezOutlet5

Tech Note MSNTN03

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Document Revision History:

Date	Comments
Jan 25, 2024	Updated Cloud4UIS example screens for latest version
Set 10, 2022	Added API min firmware version notice
Apr 12, 2022	First release

This TechNote Applies Only to the ezOutlet5 Models:

EZ-72b

Introduction

The ezOutlet5 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 4 ways to access and control the functionality of the ezOutlet5:

1. ezDevice smartphone app
2. Cloud4UIS.com web service
3. The ezOutlet5's internal web server
4. A REST-ful API for HTTP commands

1. 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

Launch the ezDevice app and create a new account. This same account information will be used for the Cloud4UIS.com web service (see page 4).

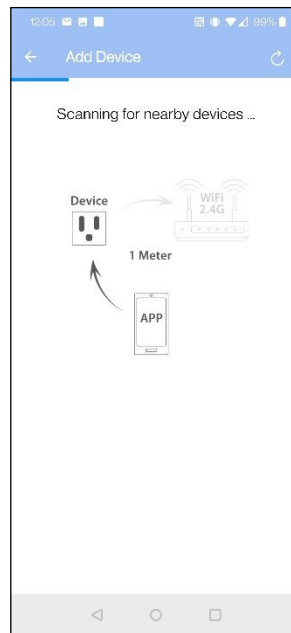
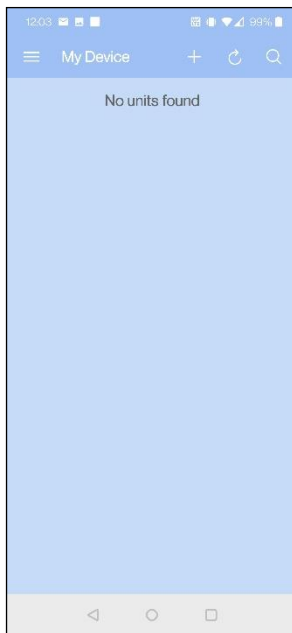
ezDevice uses Bluetooth to scan and locate your ezOutlet5 devices. Hold your phone within 1 meter (3 ft) of the ezOutlet5 and tap the (+) sign to add a new device to your list.

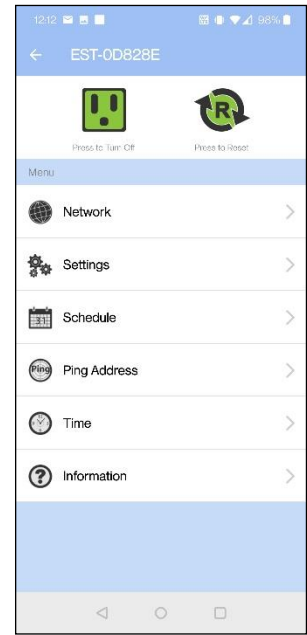
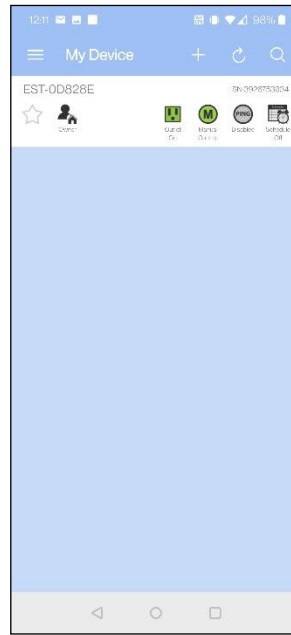
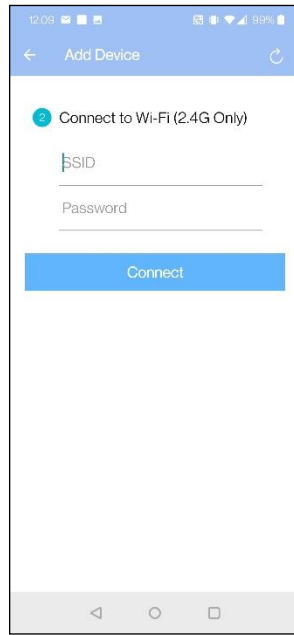
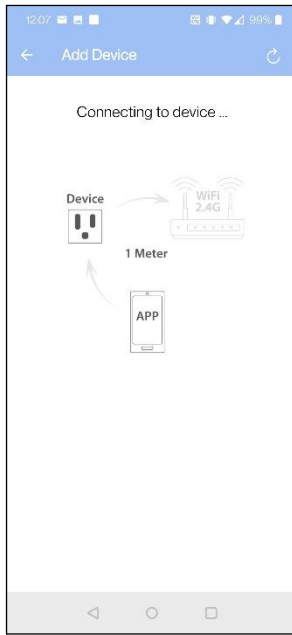
Tap the model of the product you wish to locate (EZ-72b). ezDevice will scan for all ezOutlet5's. If one is found, its serial number will be shown. Tap the Connect button to begin the add process.

If the ezOutlet5 does not have a wired Ethernet connection to your network, ezDevice will prompt for the WiFi access point name (SSID) and password for your WiFi network. If successful, the ezOutlet5 will be added to your Cloud4UIS account and to the ezDevice app.

NOTE: The WiFi SSID and Password are case sensitive.

Tap the ezOutlet5 in the list of devices to change settings.





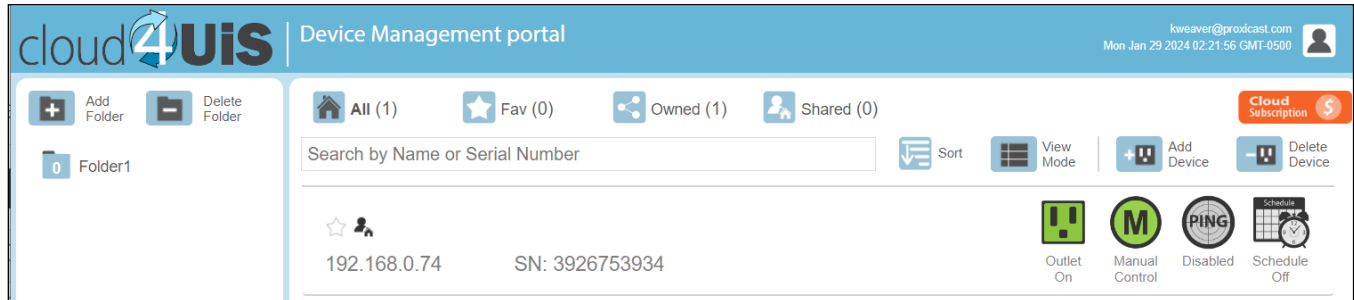
2. Cloud4UIS.com Web Service

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

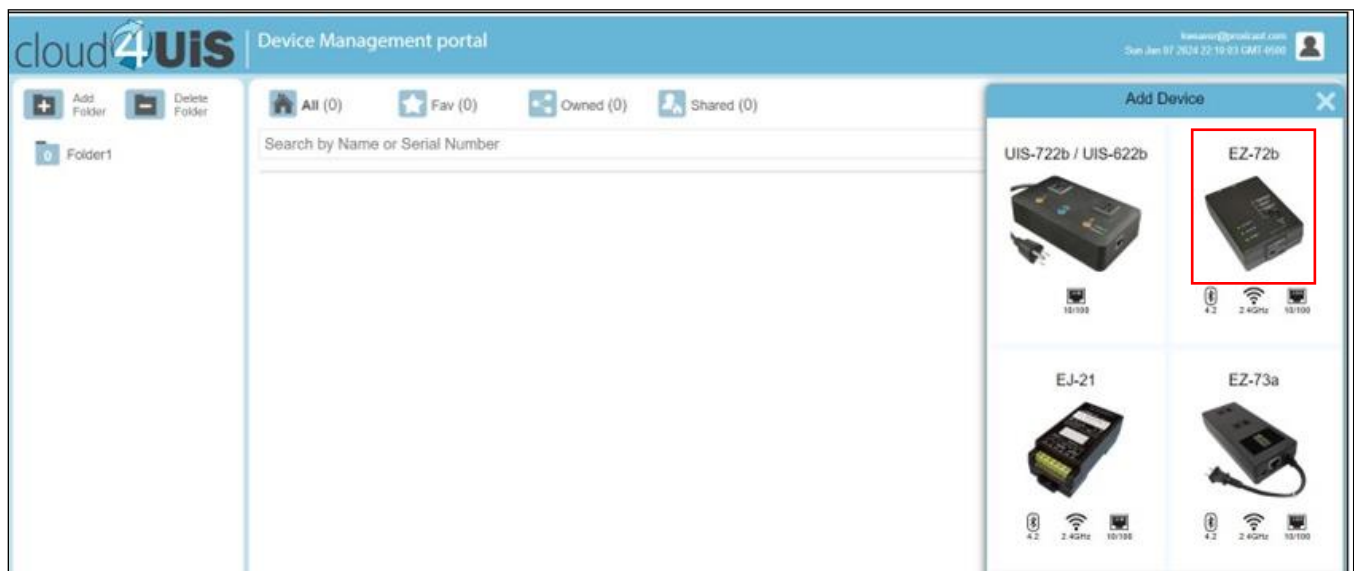
<http://Cloud4UIS.com>

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. Use Cloud4UIS to add wired Ethernet devices by their serial number.

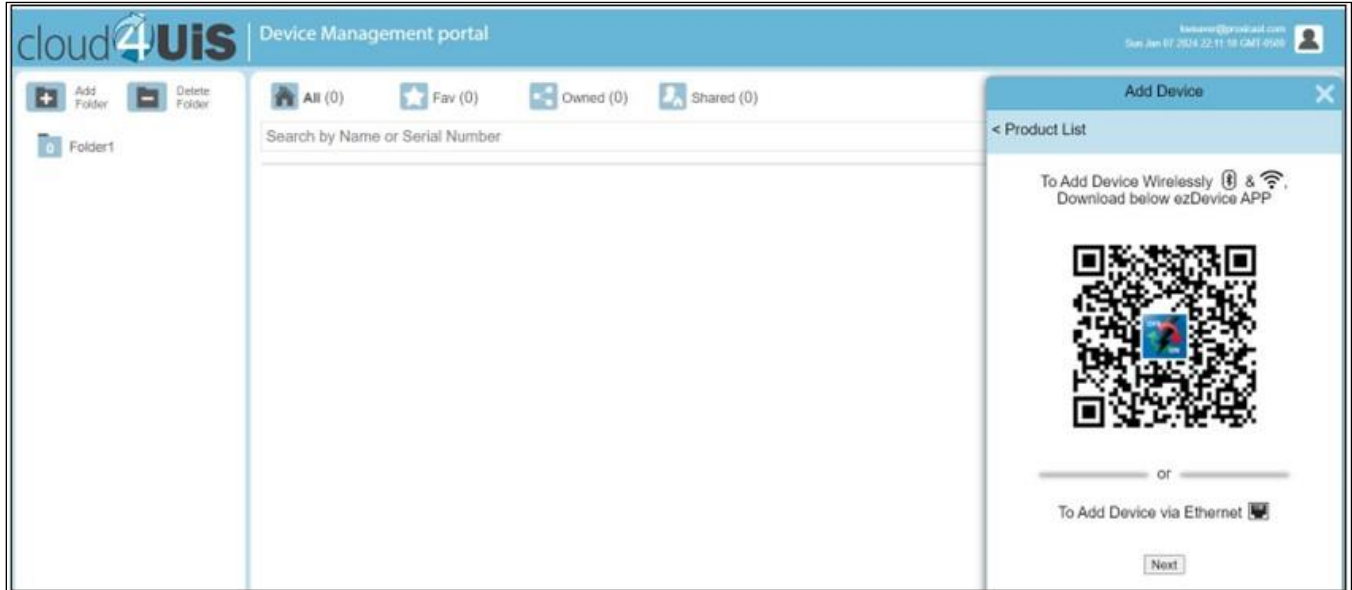


If you are adding a device for the first time, click the **Add Device** icon  in the upper right corner to open the Add Device screen.

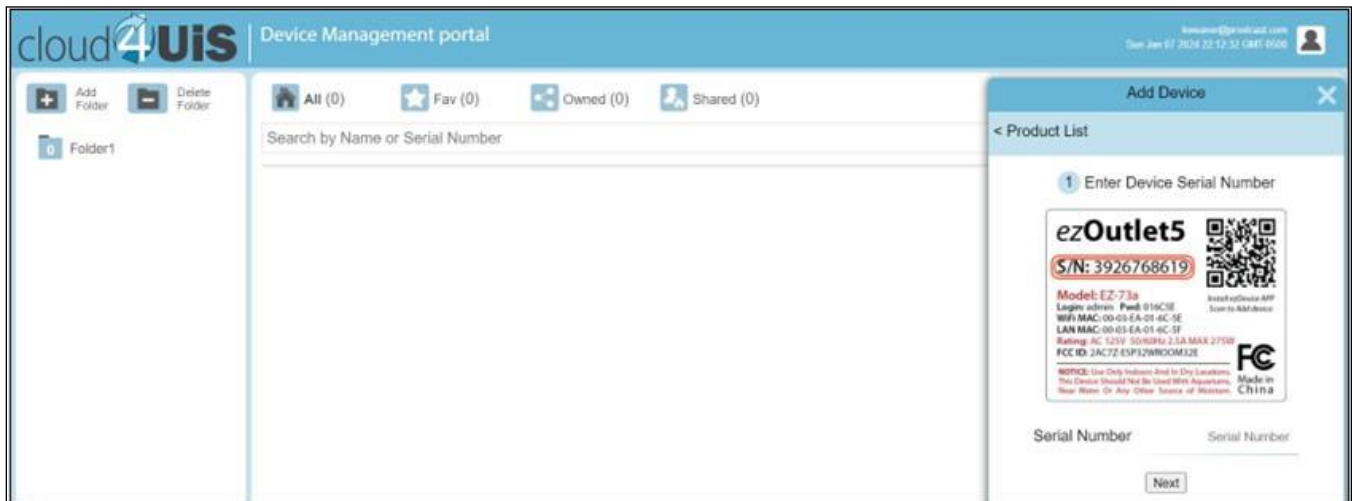


Select the type of device you wish to add (EZ-72b).

You will be reminded to use ezDevice if your ezOutlet5 is attached to your WiFi network; otherwise, click Next to add the wired device by serial number found on the bottom of the ezOutlet5..

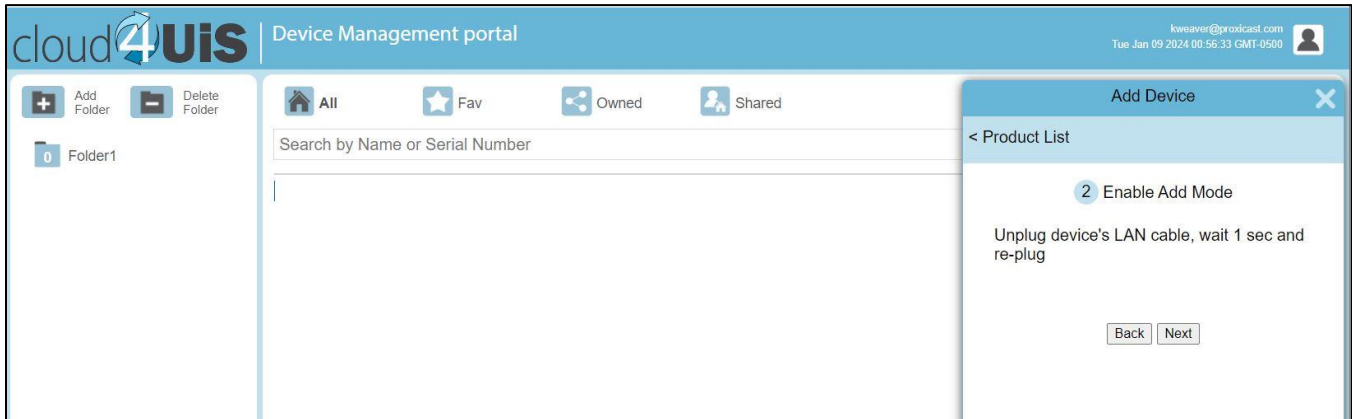


Click Next to add the wired device by serial number found on the bottom label of the ezOutlet5.

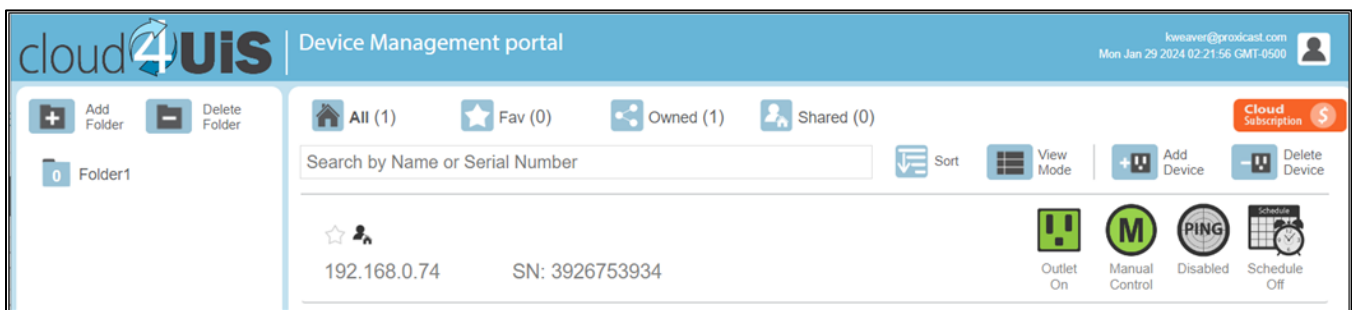


Enter the ezOutlet5's 10-digit serial number and click Next.

If your PC is on the same subnet as the ezOutlet5, Cloud4UIS should find automatically. If not, you will be instructed to activate "Add Mode" on the ezOutlet5.



To place the ezOutlet5 into "Add Mode", unplug the LAN cable for approximately 1 second, then reinsert it into the ezOutlet5. Click Next and Cloud4UIS will confirm that it can communicate with your unit.



Click any of the devices added to Cloud4UIS to manage them. You can see various status information and change most of the ezOutlet5's settings. Remember to click Save after making any changes.

Internal Web Sever

Access to the ezOutlet5's functionality is available via its internal web server pages. To access the web server, enter the ezOutlet5's IP address into any web browser.

http://<ip-address-of-ezOutlet5>
e.g. http://192.168.1.33

The default username for the ezOutlet5 is "admin".

The default password is the last 6 characters of the ezOutlet5's MAC address (upper case). See the ezOutlet5 bottom label for the password.

If you do not know the IP address of your ezOutlet5, check your router's DHCP server log or if you've added the ezOutlet5 to the ezDevice app or Cloud4UIS.com web service, check the Network tab in those applications.

The screenshot displays the ezOutlet5 web interface in a browser window. The address bar shows 'Not secure | 192.168.0.74'. The interface has a dark sidebar with navigation links: Overview, Network, Settings, Schedule, Ping Address, Time, and Save / Restore. The main content area is divided into several sections:

- ezOutlet5 Header:** Outlet: On, Outlet Mode: Manual Control, Cloud4UIS Server: Enable (Online).
- Ping Response:**
 - Wi-Fi Response: 0ms, Ethernet Response: 20ms
 - Ping Address: Default
- Outlet Control:**
 - Status: On, Mode: Manual Control
 - Turn Outlet: [OFF] [Reset]
- Wi-Fi:**
 - SSID: , Signal: 0%
 - IP Address: , DHCP: On
 - Net Mask: , DNS mode: Auto Acquire
 - Gateway: , DNS1: 8.8.8.8
 - MAC: 00:03:EA:0D:82:8E, DNS2: 168.95.1.1
- Ethernet:**
 - IP Address: 192.168.0.74, DHCP: On
 - Net Mask: 255.255.255.0, DNS mode: Auto Acquire
 - Gateway: 192.168.0.1, DNS1: 192.168.0.1
 - MAC: 00:03:EA:0D:82:8F, DNS2: 75.75.75.75
- Cloud:**
 - Status: Enable, Connection: Online
- Time:**
 - Time / Zone: 04:59:19 / GMT+0:00, Date: 2022-04-12(Tue)
 - Daylight Saving Time: ---

3. REST API

NOTE: The REST API feature requires ezOutlet5 firmware version EST.2906 or later.

Basic functions of the ezOutlet5 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: Basic" <auth> CRLF CRLF ;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 ezOutlet5

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 ezOutlet5**HTTP Packet Request**

```
"GET" <target> "HTTP/1.1"CRLF
"Host:" <host ip>CRLF
"Keep-Alive: 300"CRLF
"Connection: keep-alive"CRLF
"Authorization:Basic" <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 ezOutlet5

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>
```

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