



# Controlling the ezOutlet5

## Tech Note MSNTN03

Proxicast, LLC  
312 Sunnyfield Drive  
Suite 200  
Glenshaw, PA 15116

1-877-77PROXI  
1-877-777-7694  
1-412-213-2477

Fax:  
1-412-492-9386

E-Mail:  
[support@proxicast.com](mailto:support@proxicast.com)

Internet:  
[www.proxicast.com](http://www.proxicast.com)



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## Document Revision History:

Date	Comments
May 4, 2026	Updated for firmware EST.5234 Updated for API v.6504 Updated Cloud4UIS & ezDevice screen images Added Google Smart Home
Jan 31, 2025	Updated for firmware EST.4234
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, EZ-72t

## 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 5 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. Google Smart Home application
5. A REST-ful API for HTTP commands

### **IMPORTANT NOTES**

By default, the Auto Reset function (power-cycle on Internet loss) is **DISABLED**.

You must use one of the methods above to enable Auto Reset if you want the ezOutlet5 to automatically power-cycle your equipment.

When Auto Reset is enabled, the reset event will occur up to 3 times by default. This number can be increased up to infinity.

The Auto Reset function detects the loss of connectivity, not the absence of it. The ezOutlet5 must establish communications with the target site at least once after the *Ping Delay After Power On* time value (default = 1 minute) before the Auto Reset connection monitoring function is engaged.

For more information about how the Auto Reset algorithm works, visit:

<https://www.proxicast.com/shopping/ezOutlet5>.

# 1. ezDevice Smartphone App

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



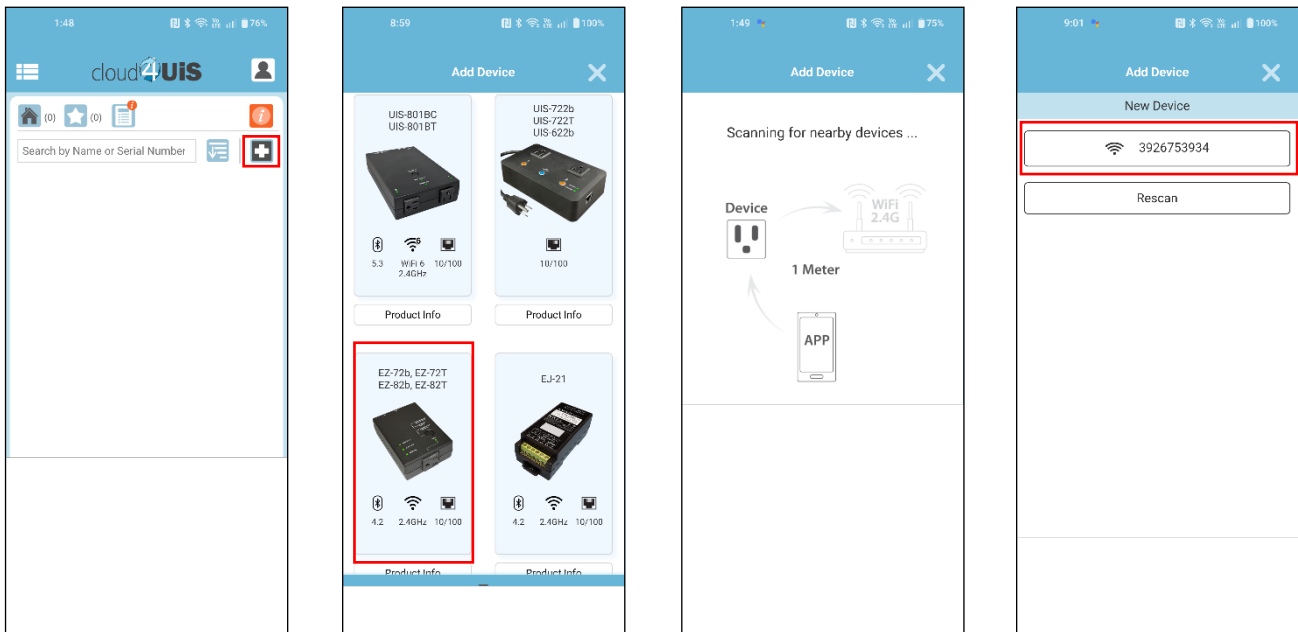
Launch the ezDevice app and create a new account. This same account information will be used for the Cloud4UIS.com web service (see page 4).

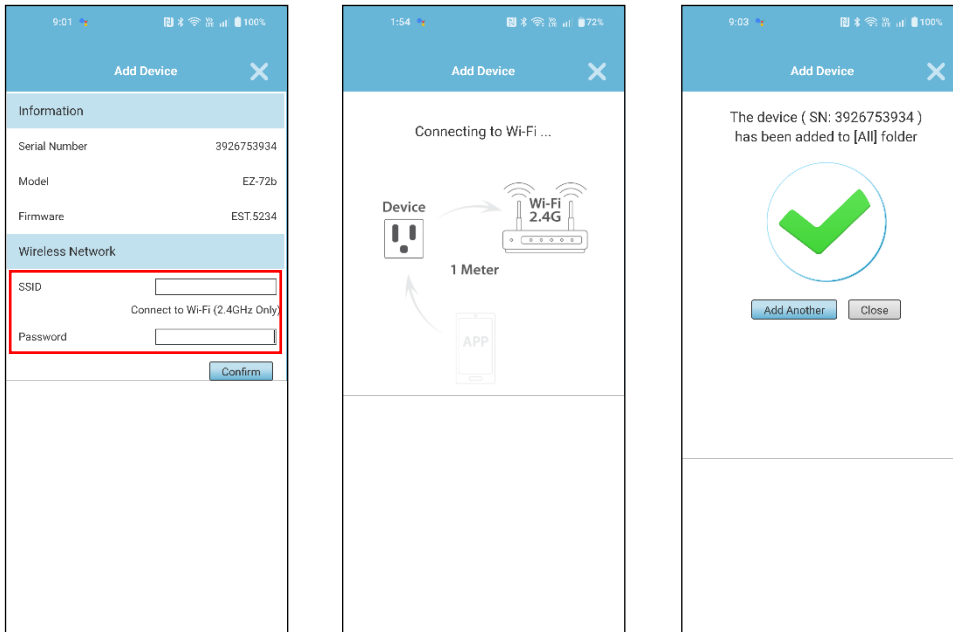
ezDevice uses Bluetooth to scan and locate your ezOutlet5 devices. Hold your phone within 1 meter (3 ft) of the ezOutlet5 and tap the (+) sign icon on the upper right side of the screen to add a new device to your list.

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.

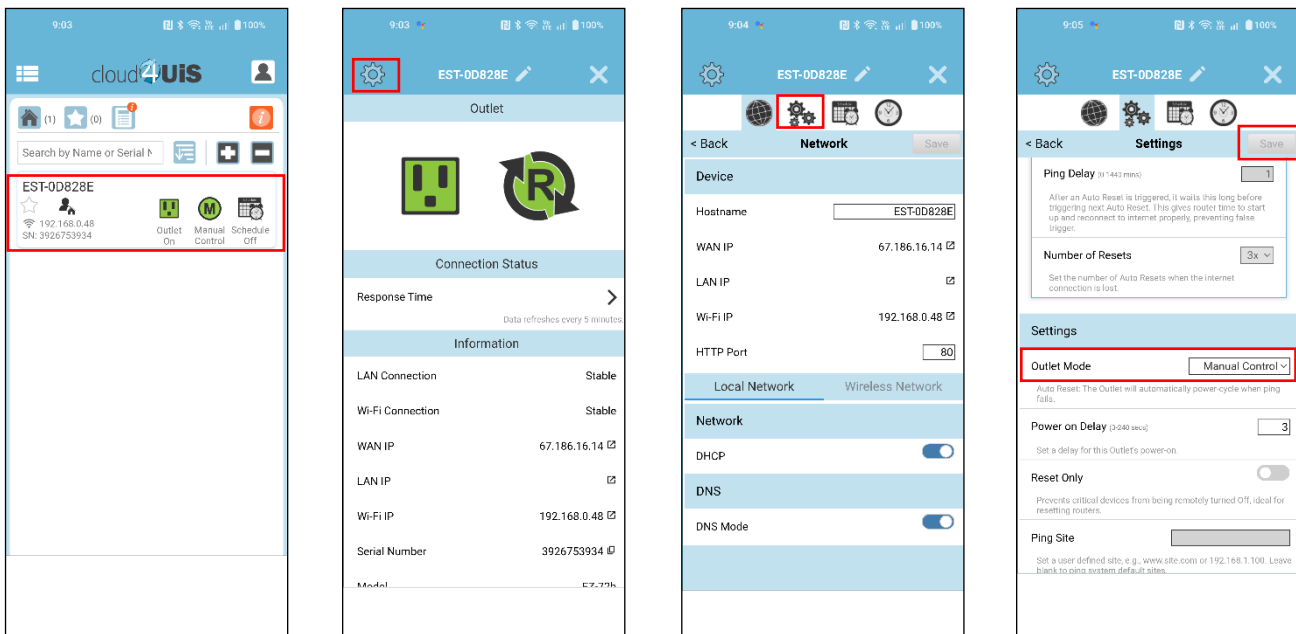
If the ezOutlet5 does not have a wired Ethernet connection to your network, ezDevice will prompt for the WiFi access point name (SSID) and password for your WiFi network. If successful, the ezOutlet5 will be added to your Cloud4UIS account and to the ezDevice app.

**NOTE: The WiFi SSID and Password are case sensitive.**





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



On the Settings page, change the **Outlet Mode** to “Auto Reset” to enable power-cycling upon Internet loss. Remember to tap **Save** to send the new setting to the ezOutlet5.

## 2. Cloud4UIS.com Web Service

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

<http://Cloud4UIS.com>

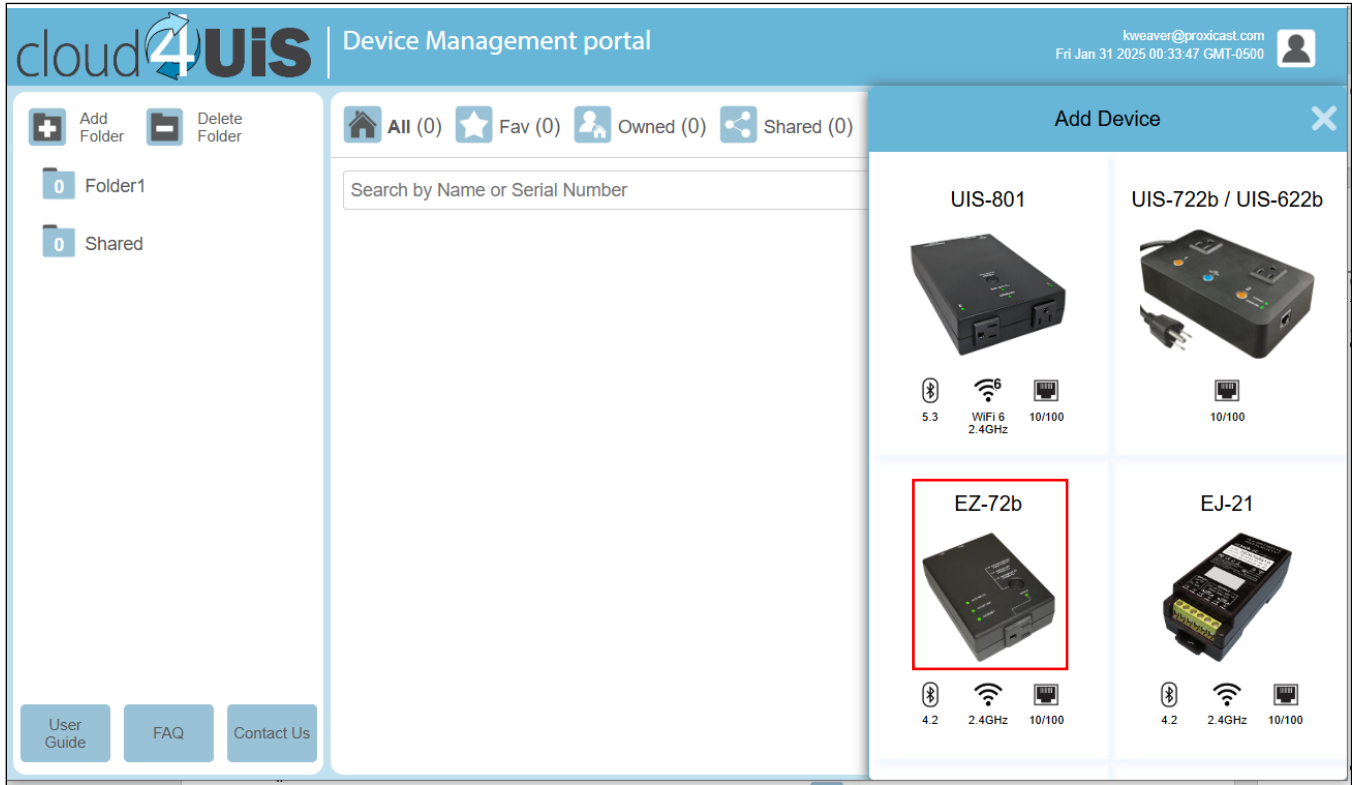
If you do not yet have an account, create one on the site. If you previously created an account using ezDevice, use the same login credentials for Cloud4UIS.com. The basic Cloud4UIS service is free, with optional paid services offering additional features.

To add a new ezOutlet5 for the first time via Cloud4UIS, it must have an Ethernet connection. To add an ezOutlet5 which has only a wireless network connection, use the ezDevice app.

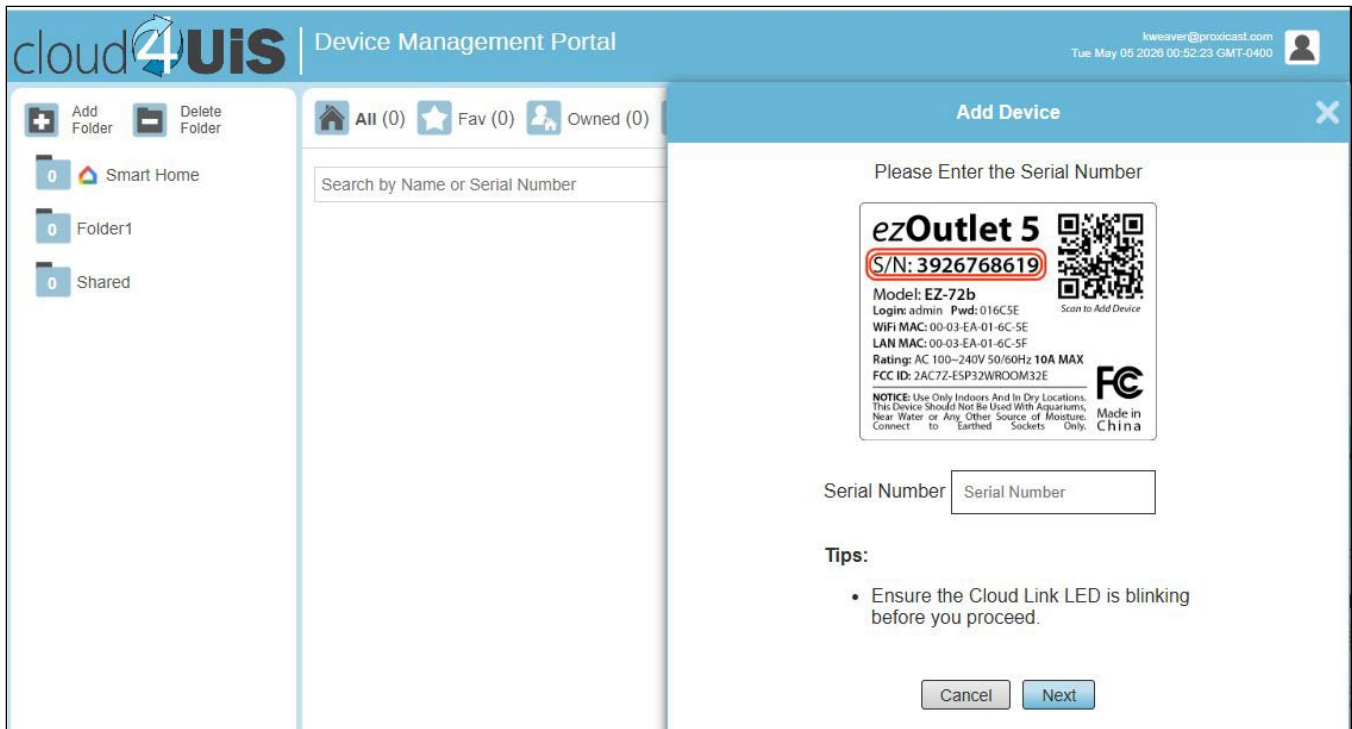
If you used ezDevice to add devices, they will appear in your Cloud4UIS account automatically.



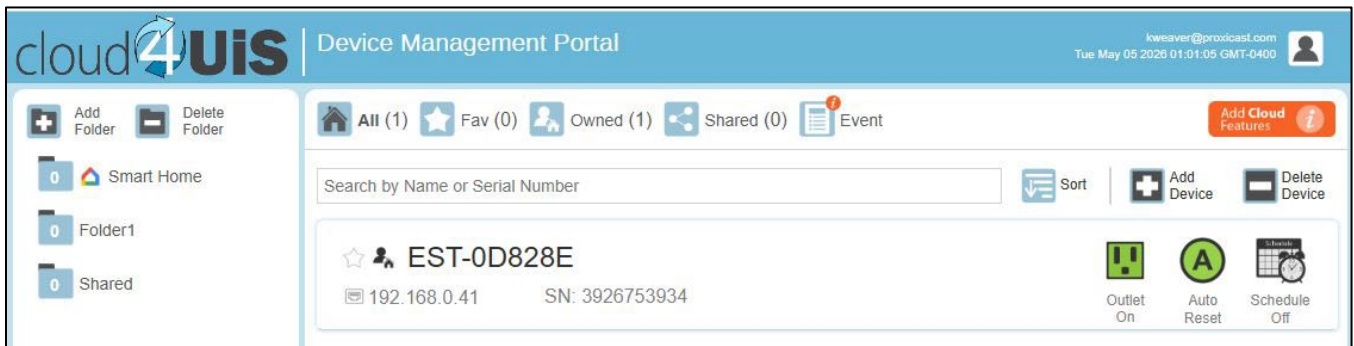
If you are adding a device for the first time, click the **Add Device** icon  in the upper right corner to open the Add Device screen.



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



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.



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.

### 3. Internal Web Sever

Access to the ezOutlet5's full 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://192.168.0.74

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. You can also open a command window and enter **arp -a** to see a list of devices on your LAN; match your ezOutlet5's LAN MAC address (00-03-EA-xx-xx-xx) to find its IP address.

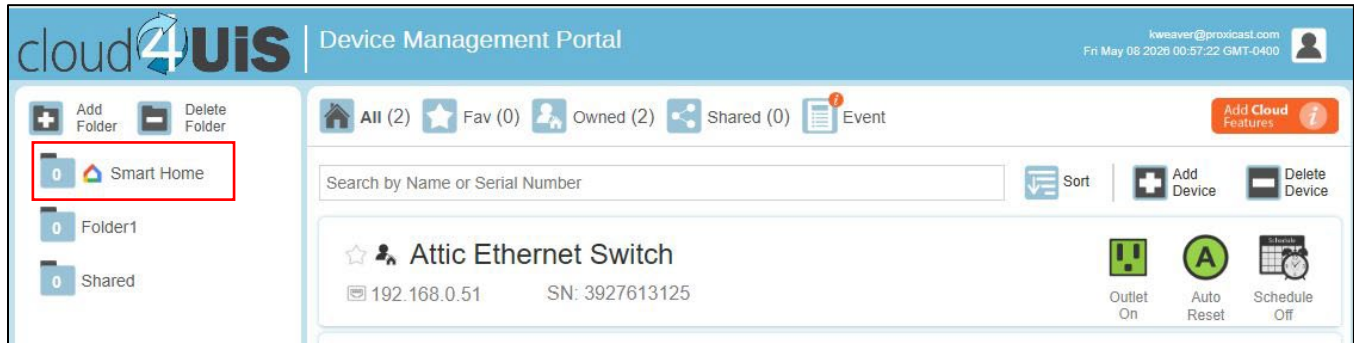
The screenshot displays the ezOutlet5 web interface in a browser window. The address bar shows the URL http://192.168.0.74. The interface has a dark sidebar on the left with navigation options: Overview, Network, Settings, Schedule, Ping Address, Time, and Save / Restore. The main content area is divided into several sections:

- ezOutlet5** (Header)
- Outlet: On** (Status)
- Outlet Mode: Manual Control** (Mode)
- Cloud4UIS Server: Enable (Online)** (Status)
- Ping Response**
  - Wi-Fi Response: 0ms
  - Ethernet Response: 20ms
  - Ping Address: Default
- Outlet Control**
  - Status: On
  - Mode: Manual Control
  - Turn Outlet: **OFF** (button) **Reset** (button)
- Wi-Fi**
  - SSID: (empty)
  - Signal: 0%
  - IP Address: (empty)
  - DHCP: On
  - Net Mask: (empty)
  - DNS mode: Auto Acquire
  - Gateway: (empty)
  - 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: ---

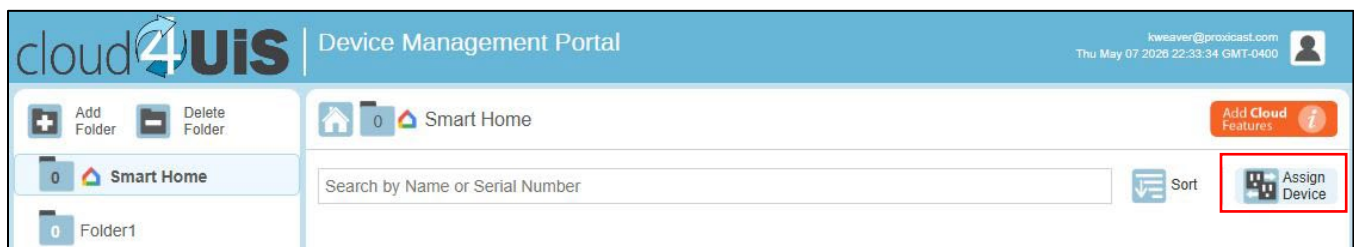
## 4. Google Smart Home

After you have added your ezOutlet5 to your Cloud4UIS account, you can integrate it with your other smart devices via the Google Home application.

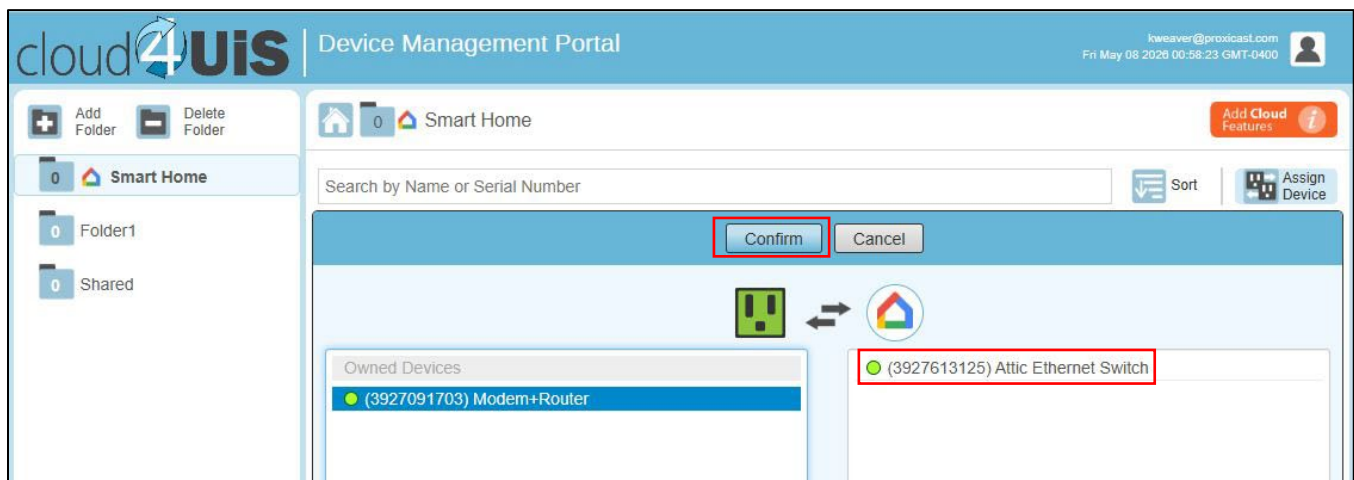
From the Cloud4UIS Home folder, click the **Smart Home** icon on the left.



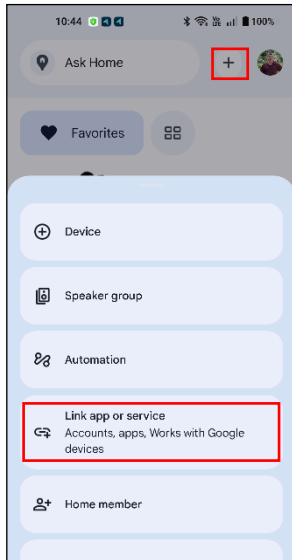
In the Smart Home folder, click the **Assign Device** icon on the right.



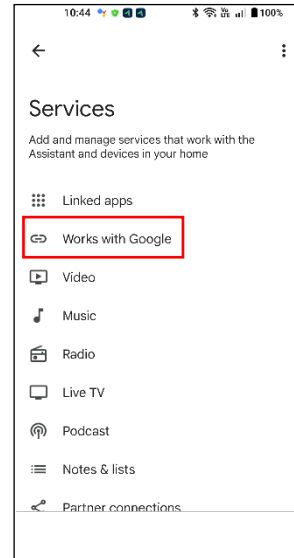
This will display a list of all of the devices in your Cloud4UIS account. Select the one(s) you want to add to your Google Home account and click **Confirm**.



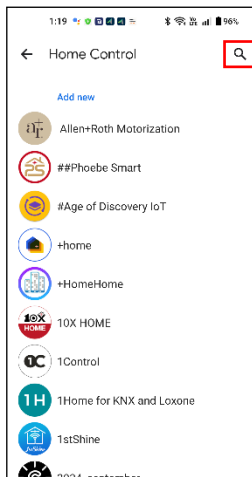
Next, open your Google Home app and tap the plus sign (+) to add a new device. Tap the “Link app or service” menu option.



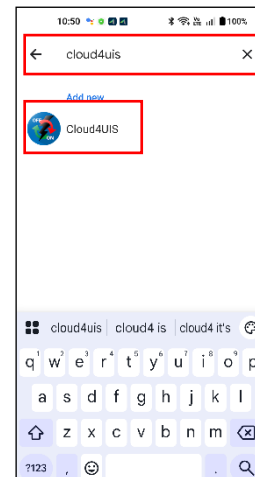
Select the “Works with Google” option.



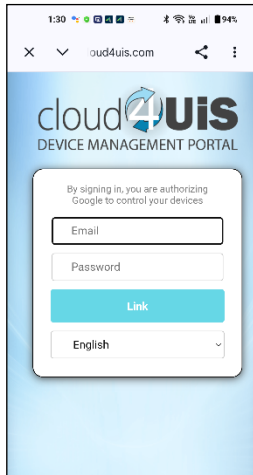
Tap the magnifying glass icon to search.



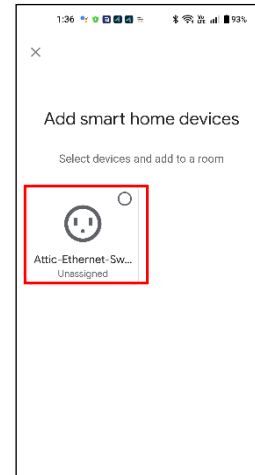
Enter “cloud4uis” in the search box, then tap the Cloud4UIS icon in the results area.



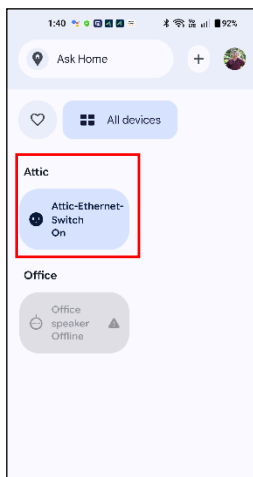
Follow the on-screen prompts to access the Cloud4UIS portal login screen. Enter your Cloud4UIS password and tap the **Link** button.



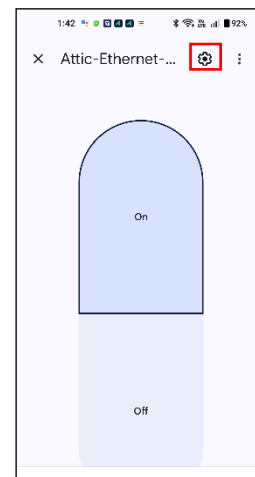
You will see a list of the devices that you previously added to the Cloud4UIS Smart Home folder. Select the device and add it to a Room.



Return to the Google Home screen to see your Rooms and devices.



Tap your device icon to toggle the outlet power. Hold the icon down for further details about the ezOutlet.



Google Home can only turn the ezOutlet5's outlet on or off. However you can use Gemini on your phone to say things like *"Hey Google, turn off the Attic Ethernet Switch"*. You can also integrate Cloud4UIS devices into Google Home Automation sequences.

Note: The device name displayed by Google Home is the "hostname" of the ezOutlet5 (set in the Settings menu) and not the display name shown in the Cloud4UIS portal. If you change the hostname after adding the ezOutlet5 to your Google Home account, you will need to relink Cloud4UIS for the new name to appear.

## 5. REST API

**NOTE: The REST API syntax below requires ezOutlet5 firmware version EST.5234 or later. We recommend updating to the latest ezOutlet5 firmware as the older API syntax is no longer supported.**

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.

### WHITE LIST

Any device that makes API requests to the ezOutlet5 must have its IP address added to the ezOutlet5's "white list" of allowed addresses. Up to 3 IP addresses are allowed.

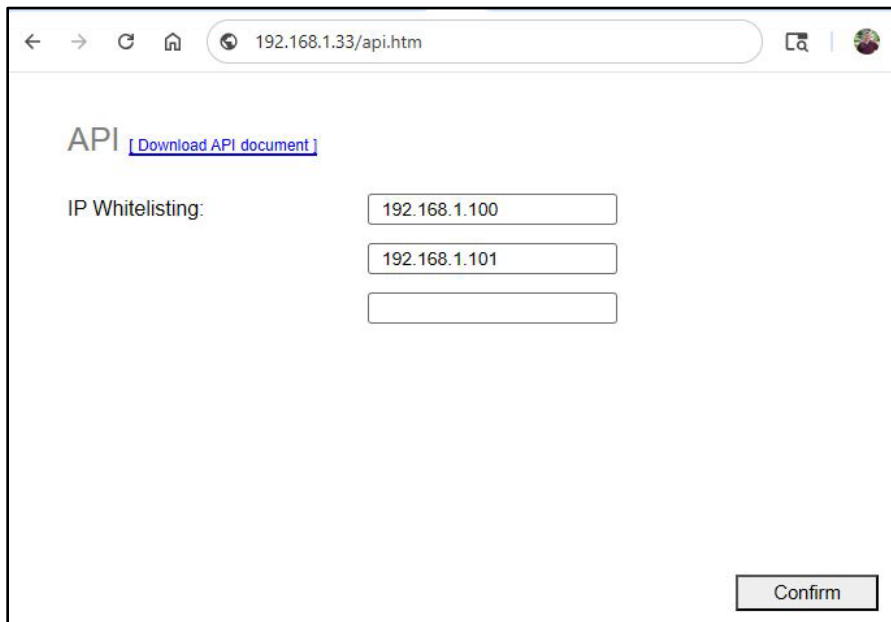
To access the ezOutlet5's IP white list, go to this URL in a web browser:

**http://<IP>/api.htm**

where <IP> is the local address of the ezOutlet5.

Log in with your ezOutlet5 web username and password.

Enter up to 3 addresses and confirm the values.



The screenshot shows a web browser window with the address bar containing "192.168.1.33/api.htm". The page content includes the heading "API" with a link to "Download API document". Below this, the "IP Whitelisting:" section contains three input fields. The first two fields contain the IP addresses "192.168.1.100" and "192.168.1.101". The third field is empty. A "Confirm" button is located at the bottom right of the form.

If you plan to make API calls from addresses outside of your local area network, include the IP address of your LAN's router/firewall which will be port-forwarding traffic to the ezOutlet5.

## Get System Information

### HTTP Packet Request

```
"GET /api/v1/system/info> HTTP/1.1" CRLF
"Host: <IP>" CRLF
"Authorization: Basic <Auth>" CRLF
"Accept: */*" CRLF
"Content-Length: 0" CRLF
CRLF
```

### Request Description

<IP>: The IP Address of the ezOutlet5  
 <Auth>: ezOutlet web login: username:password (base-64 encoded – cURL encodes by default)

### Response Data

JSON format:

```
{
  "ping": {
    "site": "", // "" = system default target, otherwise user specified target is returned
    "mode": "ping", // "ping", "http"
    "response_time": 31 // millisecond, -1 = timeout
  },
  "outlet": [{
    "status": true, // true = on, false = off
    "reset_only": true
  }],
  "outlet_mode": "manual", // "manual", "auto"
  "ping_delay_after_power_on": 1, // 0 ~ 1440 minutes
  "no_of_reset": 3 // 0 = unlimited, 1 ~ 10
}
```

#### **EXAMPLE: Get System Info**

```
curl -X GET -u "admin:12345" http://192.168.1.33/api/v1/system/info
```

OUTPUT

```
{"ping":{"site":"","mode":"ping","response_time":20},"outlet":[{"status":true,"reset_only":false}],outlet_mode":"manual","ping_delay_after_power_on":1,"no_of_reset":3}
```

## Get Outlet Status

### HTTP Packet Request

```
"GET /api/v1/outlet/info> HTTP/1.1"
CRLF
"Host: <IP>"
CRLF
"Authorization: Basic <Auth>"
CRLF
"Accept: */*"
CRLF
"Content-Length: 0"
CRLF
CRLF
```

### Request Description

<IP>: The IP Address of the ezOutlet5  
 <Auth>: ezOutlet web login: username:password (base-64 encoded – cURL encodes by default)

### Response Data

JSON format:

```
{
  "outlet": [{
    "status": true,           // true = on, false = off
    "reset_only": false     // true or false
  }]
}
```

#### **EXAMPLE: Get Outlet Status**

```
curl -X GET -u "admin:12345" http://192.168.1.33/api/v1/outlet/info
```

OUTPUT

```
{"outlet":[{"status":true,"reset_only":false}]}
```

## Turn Outlet On/Off

### HTTP Packet Request

```
"POST /api/v1/outlet/<Num>/<Action> HTTP/1.1"
CRLF
"Host: <IP>"
CRLF
"Authorization: Basic <Auth>"
CRLF
"Accept: */*"
CRLF
"Content-Length: 0"
CRLF
CRLF
```

### Request Description

```
<IP>:          The IP Address of the ezOutlet5
<Auth>:       ezOutlet web login: username:password (base-64 encoded – cURL encodes by default)
<Num>:        1 // always 1 for the EZ-72b
<Action>:     on / off / reset // reset = power off, wait_power_on_delay_time then power on
```

### Response Data

JSON format:

```
{
  "outlet": [{
    "status": true, // true = on, false = off
    "reset_only": false // true or false
  }]
}
```

### **IMPORTANT NOTE:**

When the outlet is set to "Reset Only", performing a turn-off operation will trigger a reset.

#### **EXAMPLE: Turn outlet off**

```
curl -X POST -u "admin:12345" http://192.168.1.33/api/v1/outlet/1/off
```

OUTPUT

```
{"outlet":[{"status":false,"reset_only":false}]}
```

#### **EXAMPLE: Turn outlet on**

```
curl -X POST -u "admin:12345" http://192.168.1.33/api/v1/outlet/1/on
```

OUTPUT

```
{"outlet":[{"status":true,"reset_only":false}]}
```

## Set Auto Reset Mode

### HTTP Packet Request

```
"PUT /api/v1/outlet/mode/<mode> HTTP/1.1"
CRLF
"Host: <IP>"
CRLF
"Authorization: Basic <Auth>"
CRLF
"Accept: */*"
CRLF
"Content-Length: 0"
CRLF
CRLF
```

### Request Description

<IP>: The IP Address of the ezOutlet5  
<Auth>: ezOutlet web login: username:password (base-64 encoded – cURL encodes by default)  
<mode>: "manual", "auto"

### Response Data

JSON format:

```
{
  "outlet_mode": "manual" // "manual", "auto"
}
```

#### **EXAMPLE: Enable Auto Reset Mode**

```
curl -X PUT -u "admin:12345" http://192.168.1.33/api/v1/outlet/mode/auto
```

OUTPUT

```
{"outlet_mode": "auto"}
```

###