Shelly Power Controller Dashboard

Overview

The Shelly Controller Dashboard application supports up to eight Shelly Relay devices. A Shelly Relay device can consist of 1, 2 or 4 relays. Relays are generally 120VAC, but many types are available including 12VDC. Shelly provides phone app software to control its relays. This Dashboard enables users to control Shelly relays from a Windows desktop.

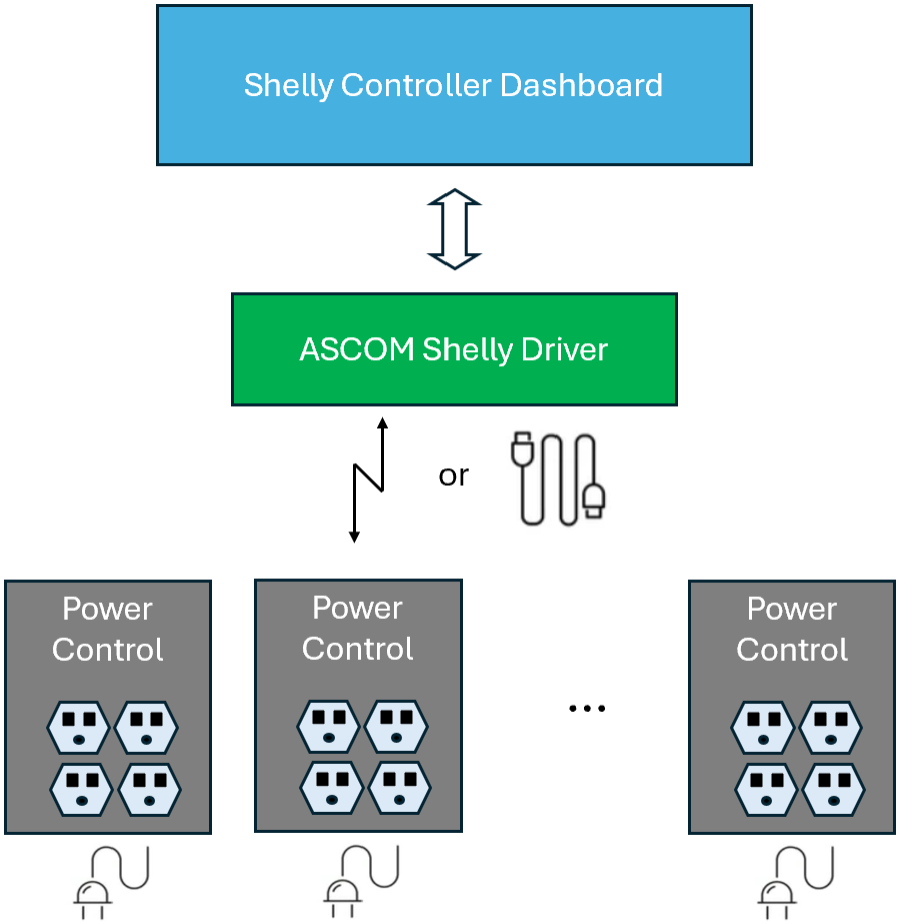
The Dashboard app runs as a standalone, Windows desktop application that utilizes an ASCOM driver. This driver was developed to support as a generic ASCOM Switch plug-in for Shelly Relay Devices. ASCOM is one of several standards that have been designed as standard interfaces for astronomical hardware. However, the selection of ASCOM as the driver interface for the Dashboard is essentially irrelevant to the implementation of the Dashboard – it is simply an off-the-shelf interface and that driver was picked because it does the job needed, and so that the application and underlying driver can be maintained and evolved independently.

Shelly Relay devices can connect via Ethernet or WiFi. In the latter case, the Shelly phone application must be installed on the user's smart phone and used to configure the device to the user's wifi network. Once the device has been initialized on either an ethernet or wifi network, the assigned IP address is used in the Dashboard setup to identify the device and its relay compliment.

Using this application, the user can configure up to 8 relays from one or more Shelly devices. Each relay can be uniquely named for display. All relays can be simultaneously

turned off or on. Each relay can be independently turned off or on. Lasly, a subset of the relays can be selected and turned on as a group.

Shelly relays will retain their state upon launch or close of the Dashboard application and will resume their prior state following power outage. The Relay names may or may not be retained through a power outage.



Hardware Installation

1. Ethernet Instructions (Option 1)
    a. Connect Shelly Control Box to Ethernet
    b. Power up Shelly Control Box
    c. Read IP Address
        i. Hold Shelly "OK" button down for 3 seconds or so

ii. Use Shelly arrow buttons to select “Status” and press “OK” button
iii. Record Ethernet IP Address

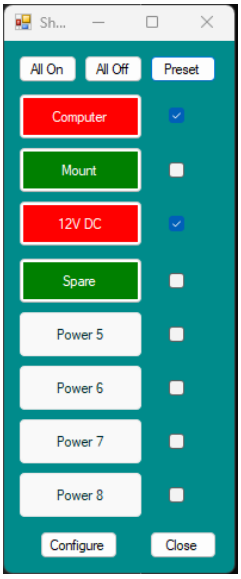
2. WiFi Instructions (Option 2)
    a. Use Shelly Phone App (Store) to configure Shelly Relay device
    b. Read IP Address
        i. Hold Shelly “OK” button down for 3 seconds or so
        ii. Use Shelly arrow buttons to select “Status” and press “OK” button
        iii. Record WiFi AP IP Address

Software Installation

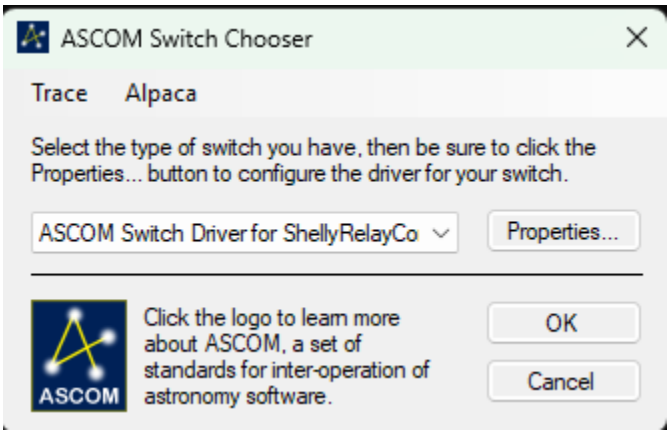
1. Install ASCOM Driver for Shelly Controller
    a. Open and extract *ShellyControllerSetup.zip*
    b. Launch *ShellyControllerSetup.exe* and follow instructions
2. Install Shelly Relay Dashboard
    a. Open and extract *Shelly Power ManagerBuildx.zip*
    b. Launch setup.exe and follow instructions

Dashboard Instructions

Launch Shelly Controller Dashboard from Start Menu.

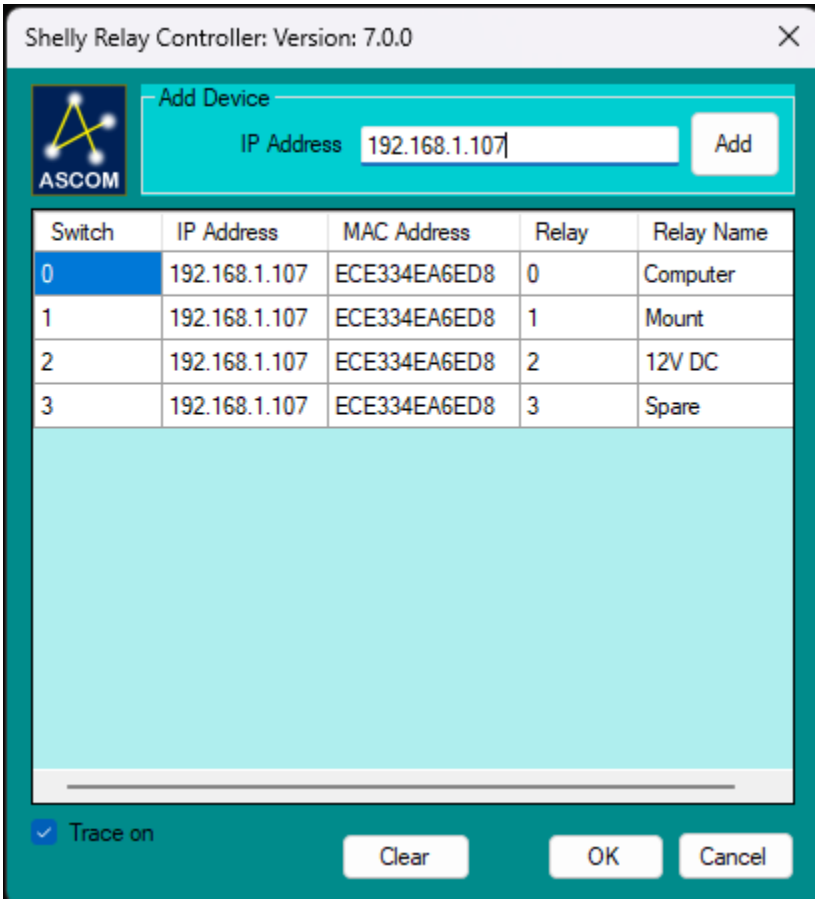


Select “Configure”. If the Shelly ASCOM driver has been successfully installed, the ASCOM Switch Chooser window should display with the *ASCOM Switch Driver for ShellyRelayControl* selected.



Select “Properties”.

The Shelly Relay Set Up window should display.



Enter the IP address for the first (or only) Shelly Device and select Add. One to four switch devices should display in a grid. Relay Names may be blank.

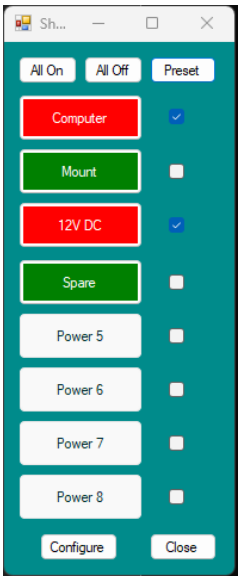
Enter a Relay Name for each Output relay.

Follow the same steps for any additional devices. The list can be cleared to start over if desired (“Clear” button).

Enter “OK to accept device configuration.

Then enter “OK” in the Properties Set Up window to accept driver configuration.

Dashboard Operation



All On: Turns on all relays.

All Off: Turns off all relays.

Preset: Turns on all relays selected under this button.

Configure: See above.

Close: Close Dashboard application. Relay switches will not be changed upon Close (or launch).