

Connecting Multiple Blue Pill Panels

Tutorials on different workflows for connecting multiple Blue Pill panels

- [Raw Panel Mode or Using One Blue Pill Panel as the Main Unit](#)
- [Sharing Device Cores Across Different Blue Pills](#)

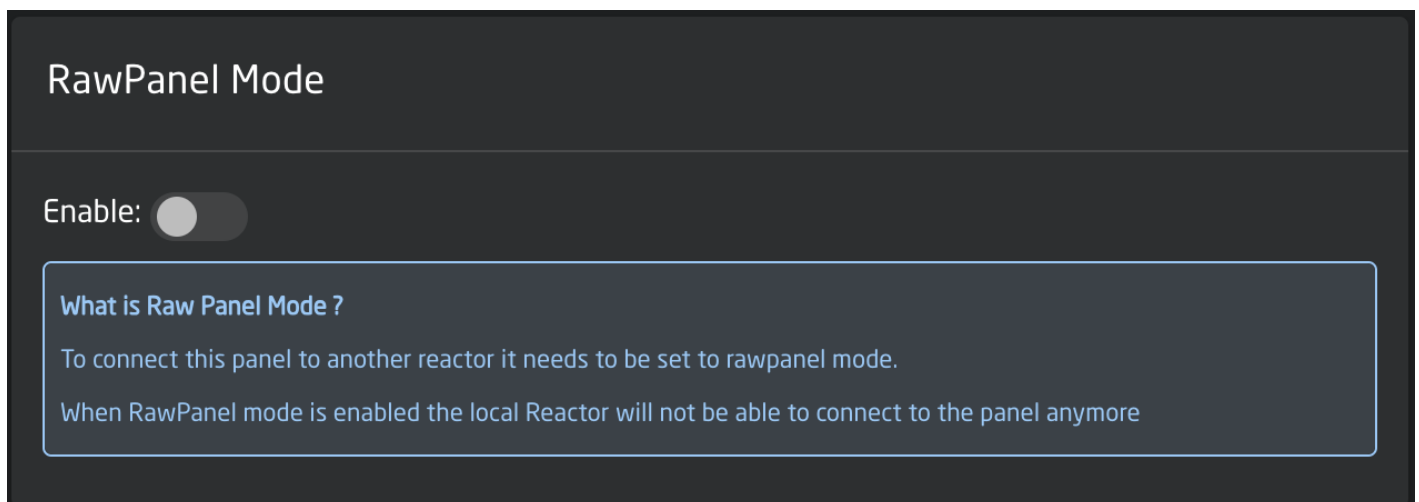
Raw Panel Mode or Using One Blue Pill Panel as the Main Unit

There are a couple of workflows that require the panel to be set into Raw Panel Mode. This is mainly used if you are having a 3rd party program take control of the Skaarhoj Panel in a custom integration or if you are connecting multiple Skaarhoj Panels with one panel set as the main unit.

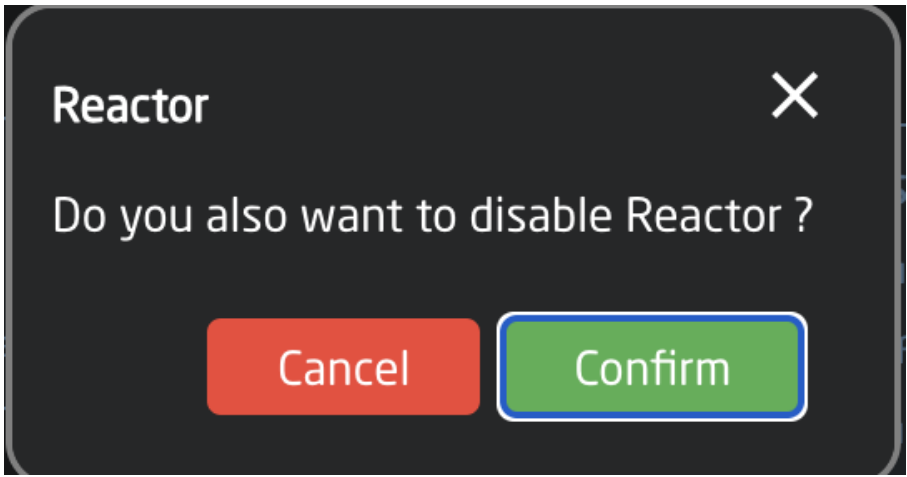
New Method

Starting with System Manager version 1.0.6, it is now possible to set a Blue Pill device into 'Raw Panel Mode' on the Settings Page.

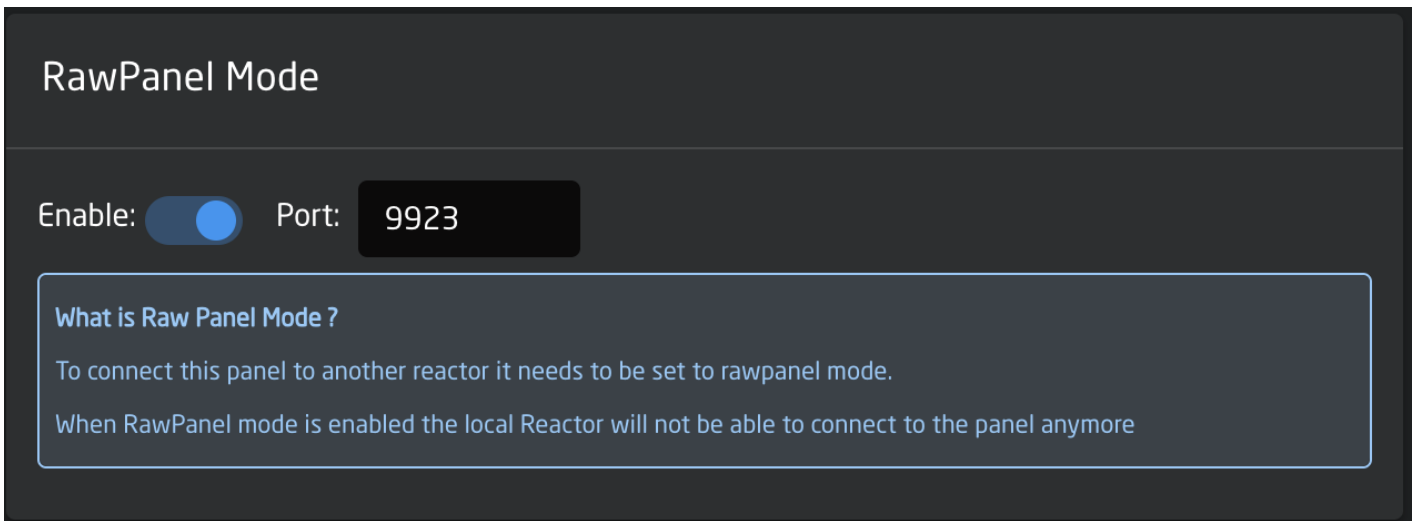
Enabling the Raw Panel Mode toggle on the Settings page does the same as step 3 in the Old Method for setting it up. After Enabling.



Once enabling, you are given the option to disable the Reactor Package. In most workflows this is what you will want to do.



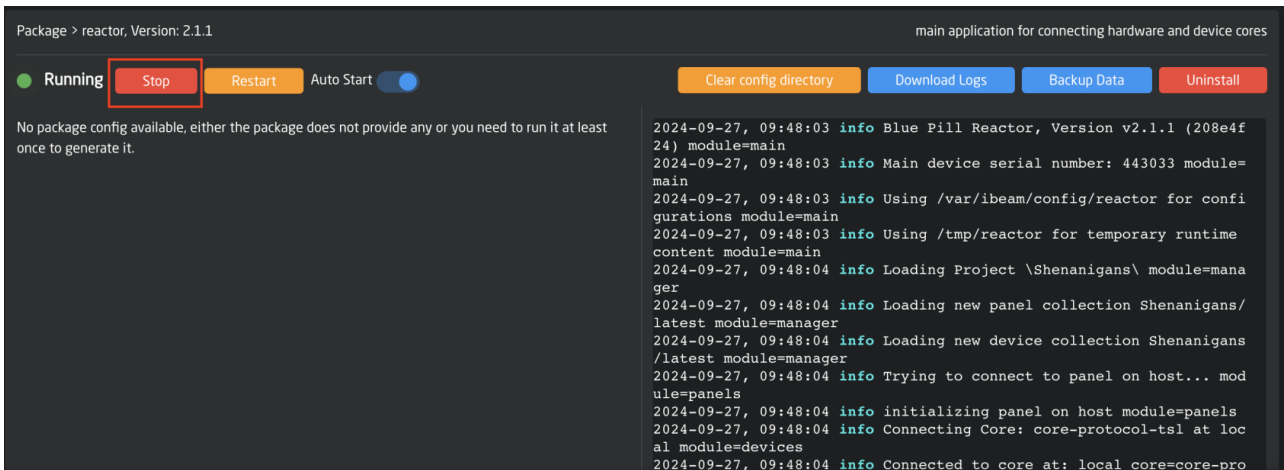
After it is enabled, you can set the specific port you need. Our default communication port for Raw Panel Mode is 9923.



Old Method

To set up multiple Blue Pill Inside units to work in a group together, it is necessary to change some settings in the connected panels to allow them to be controlled by the main Blue Pill panel. The connected unit needs the following changes:

1. Stop Reactor



2. Disable Auto-Start

Package > reactor, Version: 2.1.1

● Stopped Start Restart Auto Start ☐

No package config available, either the package does not provide any or you need to run it at least once to generate it.

3. Enable Listen on Port in Hardware Manager

Package > hardware-manager, Version: 0.0.9-pre10

● Running Restart Auto start ☒

Connection

ListenOnSocket

☒

If hardware-manager should listen on a local socket, this will make it possible for the local reactor to connect natively (recommended)

ListenOnPort

☒

If hardware-manager should listen for incoming connections on a port

DisplayIP

☒

If IP address should be displayed

Port

9923

The external port to listen on using raw panel binary protocol

Reset to defaults Save and restart

4. Save and restart

5. Add as normal panel to the main BP/BPI

Please Note, turning off Reactor will limit the page selections to Package and Settings. All other pages are part of the Reactor firmware package.

Sharing Device Cores Across Different Blue Pills

For some workflows it may be necessary to have a package running on a one Blue Pill and use it on another.

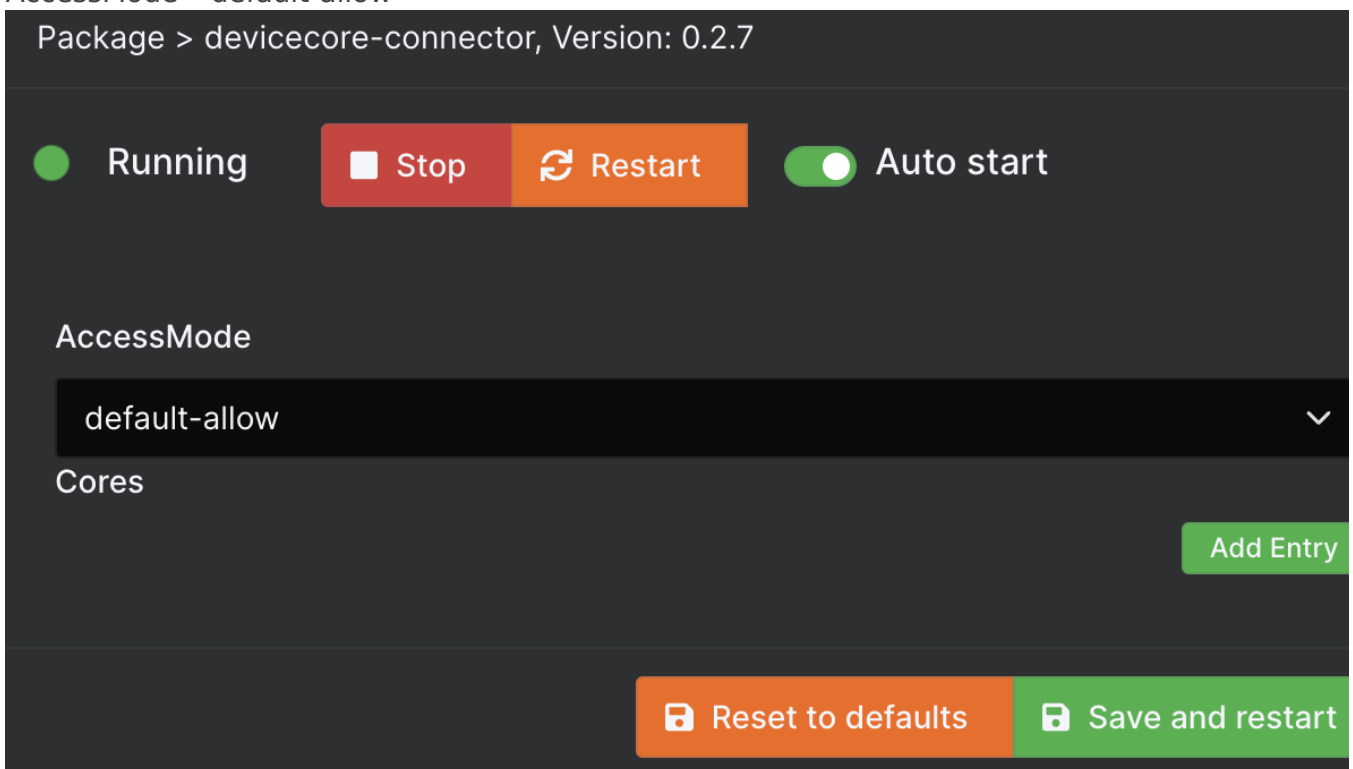
Example 1: You are controlling and Atem, and are on a different continent, the latency would probably not work well over the distance with Atem's own protocol, so you use the Blue Pill, then the Blue Pill to Blue Pill communication does handle latency better.

Example 2: When combining multiple Blue Pills at the cameras with Blue Pill Expansion Cables, you have to run the cores locally as they need serial access, but you probably want a central instance of reactor controlling all of them.

Process:

To connect two BP/BPI devices when a device core/package is running on one but not the other:

1. Install DeviceCore-Connector package on the BP running the needed package
2. AccessMode= default-allow




3. On the BP not running the package, set an IP address of the needed device core in the

device core detail section of Devices



Please note, it is important to have the Device IDs for each connected device match on every instance of Blue Pill it is located. This is what helps the Blue Pill properly identify each device. The Device ID will be unique per panel and per device core.

The Device ID is found in the Device Details for each connected device.



Missing IP
Development status: beta

CR-N500

✕

Active ☒

Name


Device Id

Model Id

Description

IP
The IP address of the Canon device

Username
The Username for the Canon device

Device Password
The password that is set on the device 

Delete

Discard

Save