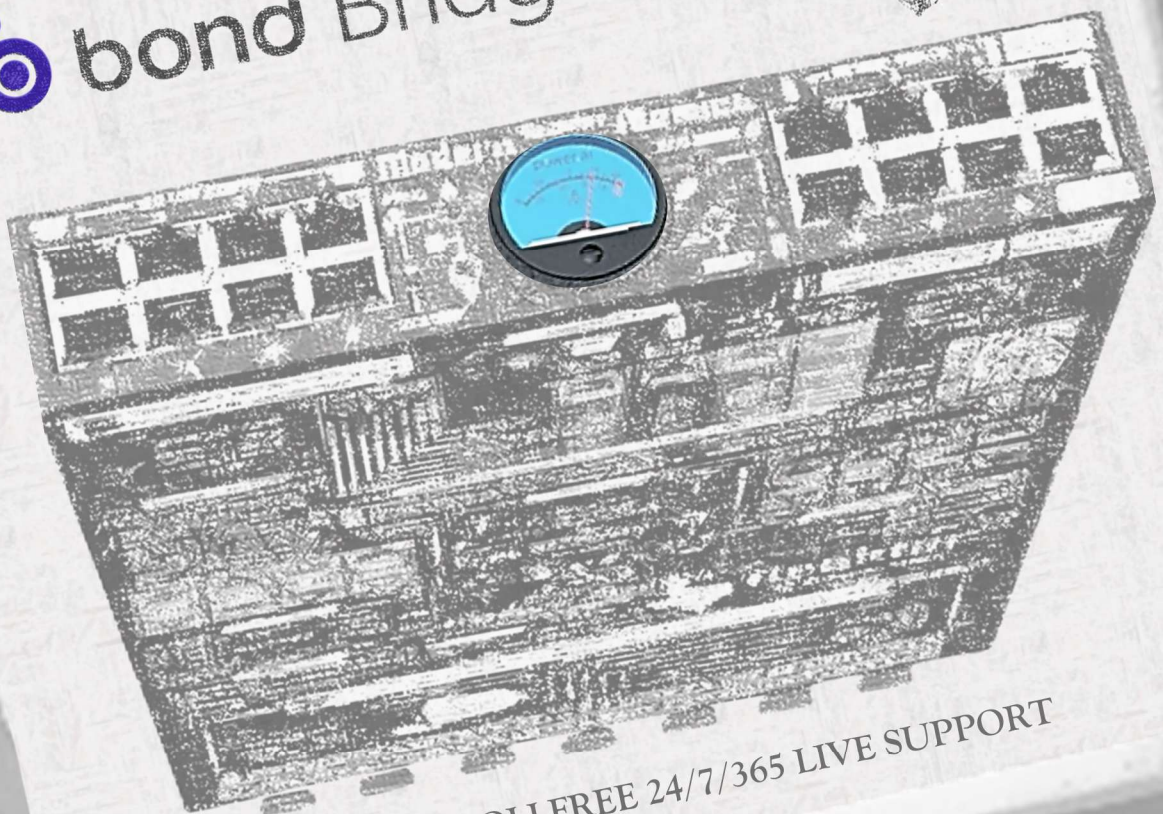


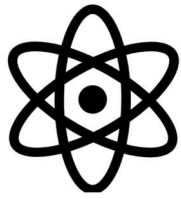
# Tech Note #101

## INTEGRATION WITH bond Bridge **PRO**



+1 (844)-771-8725 TOLLFREE 24/7/365 LIVE SUPPORT  
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# Atomic Tech Note: #101

Bond Bridge Pro

Integration

Document #4000005

Compatible with Reaktor and Collider series PDUs.

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Specifications are subject to change without notice

This Tech Note is designed to provide all the necessary information for integration, however if you have any additional questions or need any additional information, please reach out to our Customer Support Teams.

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Throughout this Tech Note you will find QR codes that when scanned will take you to a video for that section that may contain additional information. Scan the code or click on the QR code to bring up your default browser and take you to the video.



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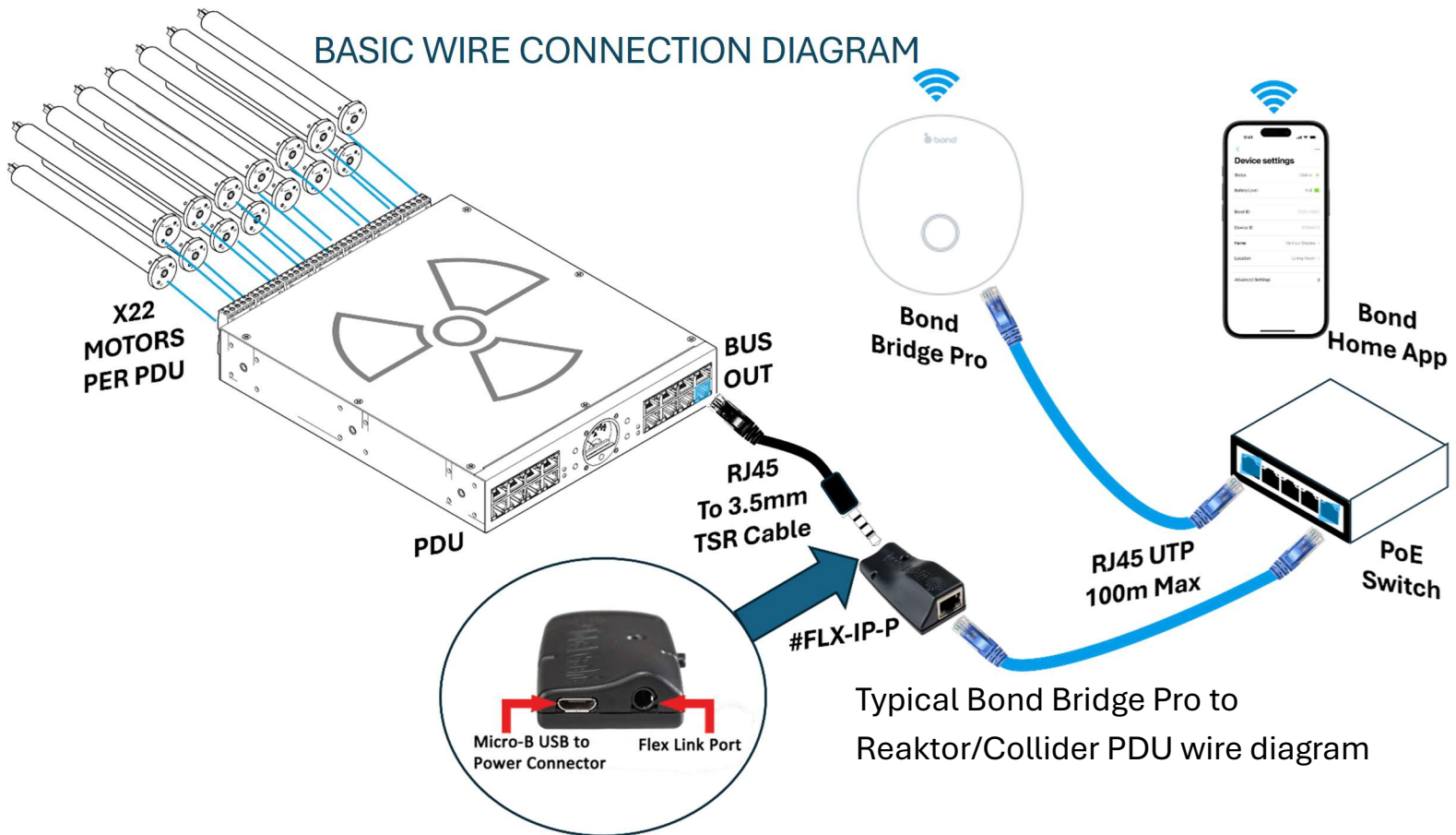
## GETTING STARTED AND SYSTEM PREREQUISITES

Compatible and Required equipment list.

- ⚡ Bond Bridge Pro with v4.17.60 firmware or above
- ⚡ Bond edition Reaktor or Collider (Up to 8 PDU's per Bond Bridge Pro)
- ⚡ or Standard Edition Reaktor or Collider and a #FLX-IP-P or other compatible Global Cache Server (Included with all Bond editions)
- ⚡ 802.3 af/at/bt PoE switch to power the #FLX-IP-P a& the Bond Bridge Pro
- ⚡ 485 or PoE Motors connected to a Reaktor or Collider

The Bond Bridge Pro currently has a limitation of up to 100 Motors which can be spread across up to 8 PDU's





From left to right, the motors are connected to the PDU with UTP or multi conductor cabling;

The #FLX-IP-P is connected to the BUS OUT port on the PDU via a custom RJ45 to 3.5mm TSR Cable which is included with the Bond Edition PDU's and or with the #FLEX-IP;

The #FLEX-IP-P is connected to a PoE switch (any type af/at/bt/) and or with the included USB power supply and an Ethernet connection to a Ethernet switch;

The Bond Bridge Pro is also connected to the PoE switch, or a USB power cable and an Ethernet connection to a switch;

The Bond Home App needs to be downloaded from your app store onto a compatible iOS or Android mobile device and normally needs to be connected to a WIFI connection which is also on the same logical segment of the Ethernet switch.

## CONNECT MOTORS AND BUILD ALL GROUPS USING PDU FIRST

Using the PDU front keys connect your motors and start building your groups. (See pages 40-42 of your PDU manual for more details on making groups)

A best practice would be to keep note of the order in which you connect your motors and create your groups as this will aid you in the naming process inside the Bond Home App.

Once the Bond Bridge Pro is connected and setup with your PDU, the motors and groups will start to appear in the app and they will be listed as Motor1, Motor 2, and Group1, Group2, Etc.

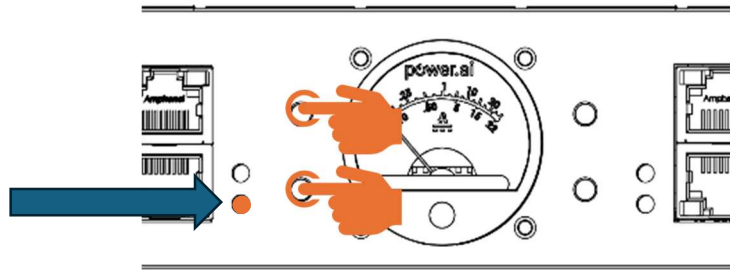
In the Bond Home app you can rename the motors and groups and assign them to rooms as needed.

The reason you will want groups made from the PDU is so that all the shades in each group move in unison with each other.

If you decide to make new groups inside of the Bond Home app and have not make them using the PDU the shades in your group will NOT move in unison with each other.

## REAKTOR CONNECTION AND MULTI-PDU JSON SERIAL SET UP

If you have more than one PDU in your system you will need to turn on the multi-PDU JSON feature on the PDU with the #FLX-IP-P connected. If you only have a single PDU then you can skip this next step.



On the PDU with the #FLX-IP-P in the user mode and with the keys unlocked (You can tell the keys are unlocked when the bottom left status LED is Amber) Press and hold both the UP and DOWN KEYS for approximately 2 seconds.

The status LED will now blink every 3-4 seconds to indicate the multi-unit PDU JSON is running.

## DISCOVERING IP-ADDRESS OF #FLX-IP-P

### Discovering the IP Address

- The Flex IP will typically receive an IP address from your network's DHCP server.
- Windows users can find the IP address using our **iHelp** utility, available for download from our website.
- For other operating systems, locate the IP address via your router's interface or a third-party IP scanner, matching the MAC address found on the unit's label.
- If your network lacks a DHCP server, the default IP is set to **192.168.1.70**. It can be accessed directly with a PC and ethernet cable by configuring the IPv4 settings on the PC for an IP address in the same subnet range of the default IP. Example below:
  - TPC IP config: IP address: 192.168.1.85, Subnet Mask: 255.255.255.0, Gateway: NONE.
  - Disable any additional network connections, such as WiFi.
  - iHelp does not detect the unit while directly connected to a PC.

```
C:\Users\Apps-Station1>arp -a
```

```
Interface: 192.168.8.120 --- 0x12
```

Internet Address	Physical Address	Type
192.168.8.1	94-83-c4-55-cf-f9	dynamic
192.168.8.11	4c-c2-06-16-01-e0	dynamic
192.168.8.12	4c-c2-06-16-02-ce	dynamic
192.168.8.13	4c-c2-06-16-01-18	dynamic
192.168.8.180	00-0c-1e-06-69-eb	dynamic
192.168.8.226	00-0f-ff-91-8f-72	dynamic
192.168.8.255	ff-ff-ff-ff-ff-ff	static
224.0.0.22	01-00-5e-00-00-16	static
224.0.0.251	01-00-5e-00-00-fb	static
224.0.0.252	01-00-5e-00-00-fc	static



THE #FLX-IP-P will be identified in many IP Scanners as \ITACHFLEX by Global Cache

**Advanced IP Scanner**

File View Settings Help

Scan

192.168.8.1-254 Example: 192.168.0.1-100, 192.168.0.200 Search

Results Favorites

Status	Name	IP	Manufacturer	MAC address
>	console.gl-inet.com	192.168.8.1	GL Technologies (Hong Kong) Limited	94:83:C4:55:CF:F9
>	sfy_poe_000356	192.168.8.11	Somfy	4C:C2:06:16:01:E0
>	sfy_poe_000444	192.168.8.12	Somfy	4C:C2:06:16:02:CE
>	sfy_poe_00028E	192.168.8.13	Somfy	4C:C2:06:16:01:18
>	Admin	192.168.8.120	GIGA-BYTE TECHNOLOGY CO.,LTD.	74:D4:35:4D:85:03
>	ITACHFLEX0669EB.lan	192.168.8.180	Global Cache	00:0C:1E:06:69:EB
>	ea1-000FFF918F72.lan	192.168.8.226	Control4	00:0F:FF:91:8F:72



## #FLX-IP-P TELNET CONFIGURATION SETUP

### Device Configuration

- Access device settings by entering the IP address into a browser.
- To assign a static IP in Network Settings, switch off DHCP and input your desired IP.
- To configure the Flex Link Cable settings, choose the type of cable connected and configure as necessary. Remember to save your changes.

Adjust the #FLX-IP-P to the following settings as shown in the image below.

Cable (RS232)

Hex (False)

Baud Rate (19,200)

Flow (None) Data Bits (8) Stop Bits (1)

Gender Change (False)

BackFlex Link Cable

**Current Active Cable:** **Serial**

**Change Flex Link Cable:** Serial

**Serial Cable Configuration**

Cable Type: ⇒ RS232 RS485

Hex Interpretation (HTTP API only): True False ⇐

Baud Rate: ⇒ 19200

Flow Control (RS232 only): ⇒ None Hardware

Duplex (RS485 only): Half Full ⇐

Parity: ⇒ None Even Odd

Data Bits: ⇒ 8

Stop Bits: ⇒ 1 2

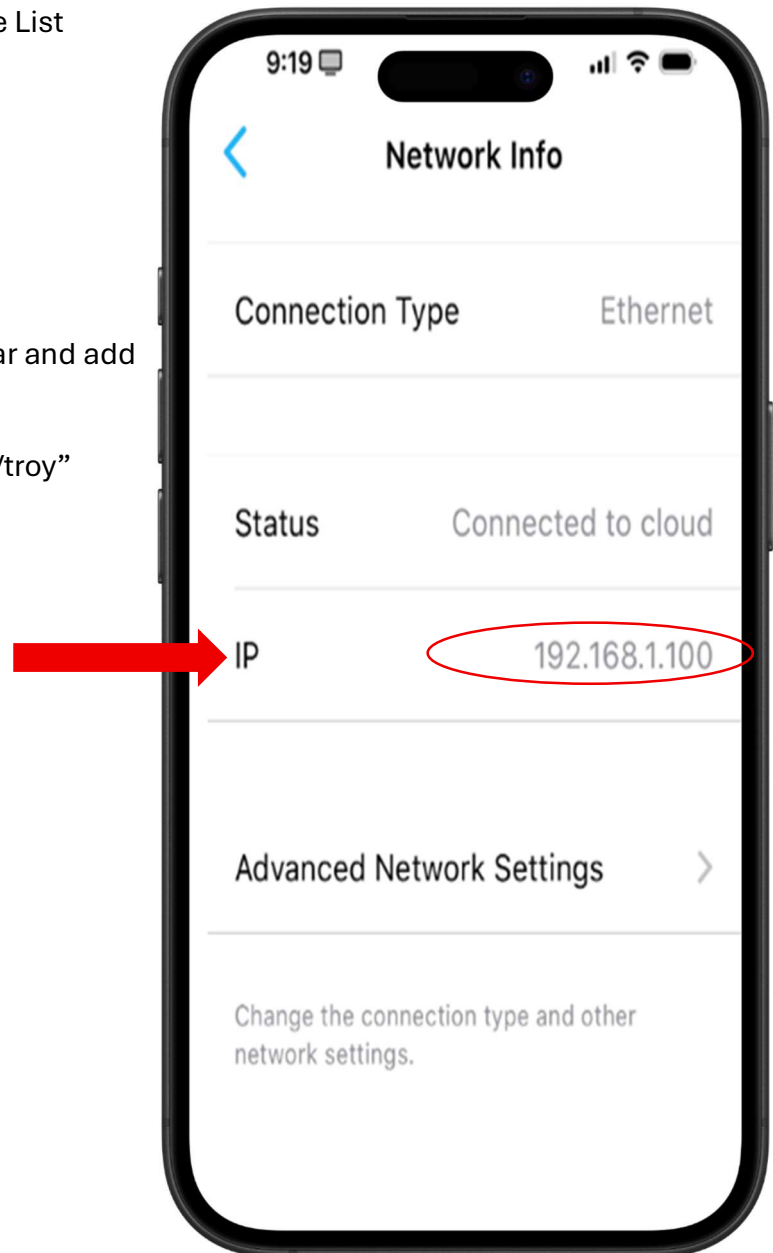
Gender Changer (RS232 only): True False ⇐

Enables internal crossover.

## BOND BRIDGE PRO TELNET CONFIGURATION

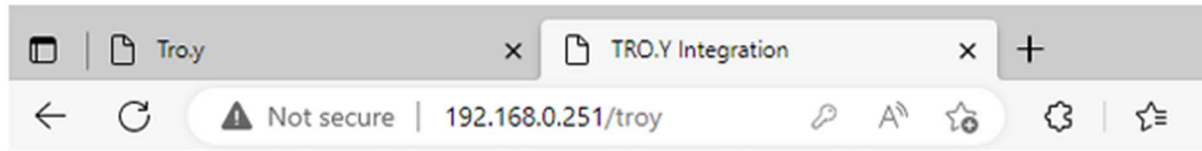
You will need to know the IP address of your Bond Bridge Pro for the next step

- Open your Bond app
- Select the Bond Bridge Pro in the Device List
- Click on the “Advanced Settings”
- Click on the “Network Info”
- Copy IP address
- Open a web browser
- Paste the IP address into the address bar and add the following /troy to the end of the IP
- Should look like this “XXX.XXX.XXX.XXX/troy”



## BOND BRIDGE PRO TELNET CONFIGURATION

Using a browser that is connected to the same network as your Bond Bridge Pro, navigate to the Bond Bridge Pro IP address with a forward slash troy (Example 192.168.0.251/troy)



### TRO.Y Integration

- Please enter the IP address, port, username, and password for your TRO.Y system.
- You may find the IP address by searching for "troy" in your router's DHCP table.
- Port number is usually 23, but may be changed in the Troy's settings page.
- You may change settings without re-entering the password if it has not changed.
- Be sure to select "Enabled" before pressing "Save".

Status: reset

☒ Enabled ☐ Disabled

IP	192.168.0.250
Port	4999
Username	Mike
Password	*****
<input type="button" value="Save"/>	



You will need to click on the table and enter the IP address of the FLX-IP in the IP section of the table you found in the last step. Enter the port at 4999 and use anything you want in the Username and password

Reboot the Bond Bridge Pro and then reboot Reaktor and you're ready to control.

Your connected motors and any groups you have made will migrate to the Bond app within a few minutes.

If you add a new group or motor to the system, it will also migrate to your list of devices in the Bond Home app.

If you do not see your new motors or groups the app, power cycle the Bond Bridge Pro and this is force a new discovery.