



# JADCONFIG INSTRUCTIONS

Revised v3.4.4.0 2016-07-18

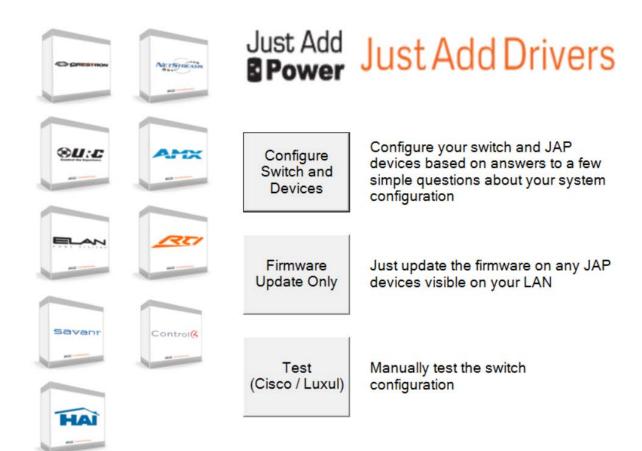
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# Download & Install

- Newest version of JADConfig and associated drivers are always available at <a href="support.justaddpower.com"><u>support.justaddpower.com</u></a>
  - o Download the setup file under JADConfig section
  - o Run Setup.exe to install JADConfig
  - Windows ONLY program
    - Apple hardware running Windows OS may experience issues. Please use a native Windows PC.
  - o See the Control System Drivers to download control drivers



# **Configure Switch and Devices**

Configure Switch and Devices Configure your switch and JAP devices based on answers to a few simple questions about your system configuration

# **Switch Models**

Click switch model for additional information

Make	Model	Layer 3	Stackable	<b>Max Devices</b>
	<b>AMS-1208P</b>	<b>₩</b>		9
	AMS-2616P	₩		25
1	XMS-2624P	<b>₩</b>		25
Luxul	XMS-5248P	<b>₩</b>		51
	AMS-4424P	<b>₩</b>	<b>₩</b>	368
	<u>XMS-7048P</u>	<b>₩</b>	€	752
Cisco	<u>SG300</u>	<b>₩</b>		51
Cisco	SG500 & SG500X	<b>₩</b>	<b>₩</b>	376

# Luxul AMS-1208P, AMS-2616P, XMS-2624P, & XMS-5248P

- All of these models provide the same performance but have different numbers of ports. The AMS-1208P and AMS-2616P have port connections on the back, while the XMS-2624P and XMS-5248P have ports on the front.
- These models are all standalone; they do **NOT** support stacking. Use the AMS-4424P or XMS-7048P for stacking
- Each Just Add Power PoE device uses 10 Watts of power.

Switch Model	<b>Just Add Power Ports</b>	PoE devices	Wattage
AMS-1208P	11	7	130W
AMS-2616P	23	16 (ports 9-24)	250W
XMS-2624P	23	23	370W
XMS-5248P	47	47	740W

# **Luxul AMS-4424P (Stacked or Unstacked)**

- The AMS-4424P supports up to sixteen (16) stacked units for a maximum of 368 Just Add Power devices
  - o Currently, the AMS-4424P and XMS-7048P cannot be part of the same stack
- Each Just Add Power PoE device uses <u>10 Watts</u> of power.

Switch Model	<b>Just Add Power Ports</b>	PoE devices	Wattage
AMS-4424P	23	23	250W

# Luxul XMS-7048P (Stacked or Unstacked)

- The XMS-7048P supports up to sixteen (16) stacked units for a maximum of 752 Just Add Power devices
   Currently, the AMS-4424P and XMS-7048P cannot be part of the same stack
- Each Just Add Power PoE device uses <u>10 Watts</u> of power.

<b>Switch Model</b>	<b>Just Add Power Ports</b>	PoE devices	Wattage
XMS-7048P	47	47	740

# Cisco SG300

- The Cisco SG300 has multiple models with different PoE capability and device capacity.
- This model is standalone; it does <u>not</u> support stacking. Use the Cisco SG500 for stacking.
- Each Just Add Power PoE device uses <u>10 Watts</u> of power.

Switch Model	Just Add Power	PoE	Wattage Available	
	Ports	devices	<u>P</u> model	MP model
SG300-10	9	7	62W	124W
SG300-20	19	0		
SG300-28	27	23	180W	375W
SG300-52	51	47	375W	740W

# Cisco SG500 & SG500X (Stacked or Unstacked)

- The Cisco SG500 has multiple models with different PoE capability and device capacity. Up to eight (8) SG500/SG500X units can be stacked together for a maximum of 376 Just Add Power devices.
- Each Just Add Power PoE device uses 10 Watts of power.

Switch Model	Just Add Power	PoE	Wattage Available	
	Ports	devices	<u>P</u> model	MP model
SG500-28	25	23	180W	740W
SG500-52	49	47	375W	740W
SG500X-24	23	23	375W	740W
SG500X-48	47	47	375W	740W

# **Computer Physical Connections**

JADConfig relies on 2 types of physical connections in order to configure a Just Add Power HDMI over IP system:

- 1. Network connection
- 2. Serial connection

These connections must be made, regardless of the switch model being used.

## **Network Connection**

A network connection is used for device discovery when setting up a Just Add Power system. The following network connections must be made.

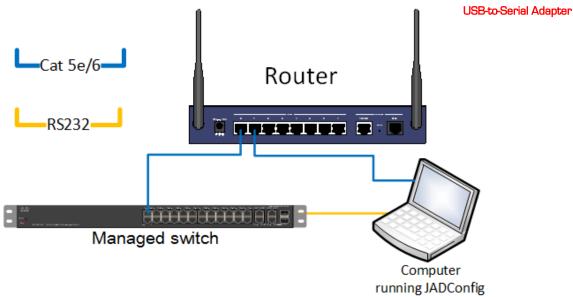
- 1. Local Area Network connected to **port 1** of the Managed network switch.
- 2. Computer running JADConfig connected to the same Local Area Network. This connection can be wired or wireless as long as port 1 has the <u>ONLY</u> network connection to the Managed network switch. This means that port 1 is the <u>ONLY</u> port with non-Just Add Power devices connected to it.
- 3. Router (or other DHCP-provider) connected to the Local Area Network to provide an initial IP address to the computer and switch so they can communicate.

### **Serial Connection**

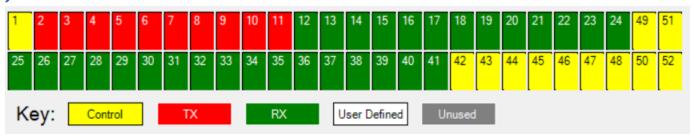
A serial connection from a computer running JADConfig to the Managed network switch is used to initially configure the number of inputs and outputs of the switch. If the computer does not have a native DB9 port, then a USB-to-Serial adapter will be needed.



# **Example**



# **Just Add Power Device Connections**



Connections for Just Add Power devices follow a template where  $\underline{n}$  is the number of Transmitters and  $\underline{m}$  is the number of Receivers:

- Port 1
- Port 2 to port *n* + 1
- Port <u>n</u> + 2 to <u>n</u> + <u>m</u> + 1
- Remaining ports

- Control port
- Transmitter ports in order starting at port 2
- Receiver ports in order starting after the last Transmitter
- Control or user-defined ports starting after the last Receiver

Port 1 of the managed switch MUST be connected to the LAN when running JADConfig.

Additional Transmitter or Receiver ports can be configured even if there is no Just Add Power device to add to that port. Those ports will be configured for the appropriate device regardless of whether a Just Add Power device is attached.

## **Example**

The image above shows a system of 10 Transmitters and 30 Receivers. Transmitter ports are 2-11, and Receiver ports are 12-41. When JADConfig is run, there are only 8 Transmitters and 27 Receivers connected.

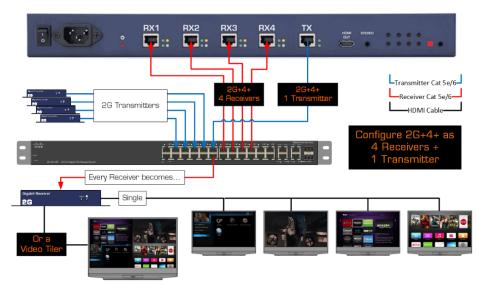
- Ports 10-11 do not have Transmitters attached, but will still be configured as Transmitter ports.
- Ports 39-41 do not have Receivers attached, but will still be configured as Receiver ports.
- Devices can be attached to these ports at a later time. See Expanding a System.

# **Example**

To add a 2G+4+ Tiling Transmitter to a system, treat the 2G+4+ as 4 Receivers and 1 Transmitter when counting the number of devices.

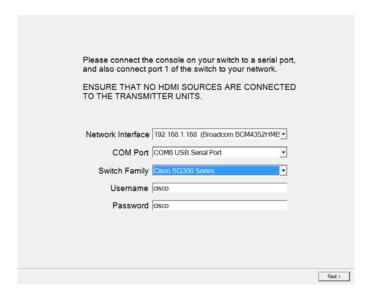
# 2G+4+ Tiling Transmitter

ImagePlay™ by adding Video Tiling to every display

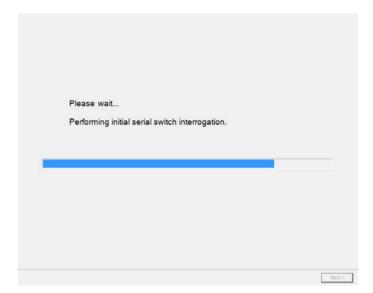


# **Quick Start Guide**

- 1. Connect the computer and switch to the network as described in **Physical Connections**.
- 2. Disconnect all HDMI cables from Transmitters. This ensures that no video traffic is passing through the system during configuration.
  - a. If the installation has a <u>2G+4+ Tiling Transmitter</u>, press and hold the PF1 button until the Data light next to the TX is flashing. This disables HDMI output for the 2G+4+.
- Select the network interface, COM port, and Switch Family. The default username and password will autofill. Click Next>



4. The switch will perform initial configuration on the switch and reset it in router mode. This will take a few minutes.



# **NOTE:** If not using stacked switches, skip to step 7.

- 5. If using a stackable switch Cisco SG500 or Luxul AMS4424P follow the instructions to set the stack configuration for each unit in the stack. The stacking cables between the switches should begin **disconnected**.
- 6. Once the program says so, connect the stacking cables. Allow 4-5 minutes for the stack to negotiate, then click Configure Stack or Verify Stack.



First we must create the stack of switches that form our system. Please select the appropriate action below.

STEP 1:
Enable StackMode

STEP 1:
Enable Stack mode on each switch you add This process must be performed individually for each switch in the stack.

STEP 2:
Assign Stack IDs

STEP 2:
Assign a Stack ID to each switch in the stack. Make sure all switches are in Stack Mode first. Use MAC Address to identify physical switch

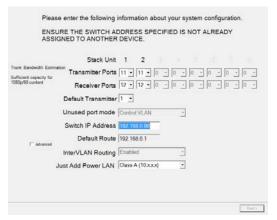
STEP 3:
Verify the stack, then configure the switches and the JustAddPower devices.

Cisco SG500

Luxul AMS4424P

# 7. Fill in the information for the size of the system and click Next>

Transmitter Ports	The number of Transmitters in the system. Stacked: the number of Transmitters on each stack unit Additional Transmitter ports can be programmed for future expansion [Note: Each Plus-Four-Plus uses one Transmitter port]	
Receiver Ports	The number of Receivers in the system. More Receivers can be programmed than are actually present.  Stacked: the number of Receivers on each stack unit  Additional Receiver ports can be programmed for future expansion  [Note: Each Plus-Four-Plus uses four Receiver ports]	
Default Transmitter	The Transmitter that will be shown on all screens by default	
Unused Port Mode	Control VLAN: unused ports will be placed on the Control VLAN (port 1 is Control VLAN) User Defined: unused ports will be unconfigured	
Switch IP Address	IP Address for the switch. Must be on the local network, outside the DHCP range, and unique to this switch	
Default Route	The IP of the router on the Local network	
InterVLAN Routing	Enabled always	
JAP LAN	IP scheme to be assigned to the Just Add Power devices. Must be outside the local network IP and unique to the Just Add Power devices.	
Advanced	Check the box to customize the JAP LAN, Default Route, and Unused Port Mode	

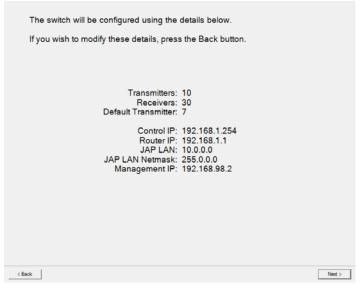


Stacked switch

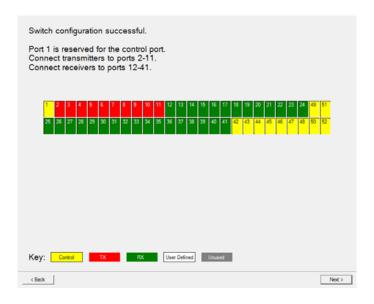


Standalone switch

8. Confirm system information at the following window and click Next>



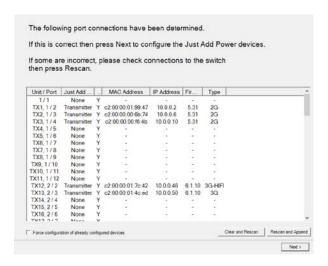
9. Once the switch is configured, connect Transmitters and Receivers to the switch as shown in the diagram and click **Next>**.



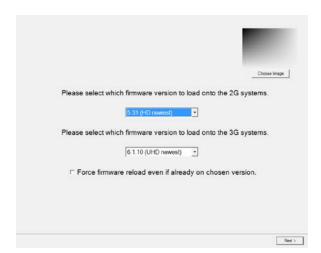
10. Confirm that all HDMI cables are disconnected from Transmitters, check the box on the popup window, and click **OK**.



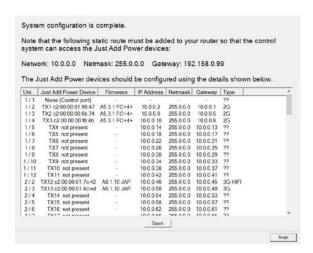
11. The discovery process will go out and find all Just Add Power devices on the network. If not all devices are discovered, see <a href="Troubleshooting">Troubleshooting — Device Discovery Errors</a>. If a complete rescan is necessary — for example if devices were connected to the wrong ports or needed to be moved for other reasons — click <a href="Clear and Rescan">Clear and Rescan</a>. If only a partial rescan is needed — for example a couple devices were missed but no devices were moved — click <a href="Rescan and Append">Rescan and Append</a>. If all devices were discovered, click <a href="Next">Next</a>> to move forward.



- 12. Choose a firmware version to load onto the devices. Just Add Power recommends using the latest firmware version
  - a. Latest firmware for 3G is A6.1.10 (Listed as 6.1.10)
  - b. Latest firmware for 2G is A5.3.1 FC+4+ (Listed as 5.31)
- 13. Select <u>Choose Image</u> to load an Image Push background image on each Receiver to show when there is no video content.
  - a. A . jpg image with 24-bit color depth must be used
  - b. Any resolution image can be used, but will be displayed in 640 x 480



- 14. Finished! Click **Export** to download a text document with system details, and **Finish** to close the software.
  - a. If there is a 2G+4+ in the system, use the power switch to power cycle the 2G+4+ to restore HDMI output.



# **JADConfig Report**

JADConfig creates a Report every time the program successfully completes. The last screen gives the opportunity to Export the JADConfig Report as a .txt file. This Report file should be stored with other documentation for the installation.

```
Configuration generated at 10:16 on Mon 18 July 2016
Switch family: Luxul AMS7048P (Stacked)
                                                                    Switch Model
Username: admin
                                                                    Username
                                                                    Password
Password: admin
Note that the following static route must be added to your router so that the control system can access the Just Add
Power devices:
Network: 10.0.0.0
                     Netmask: 255.0.0.0
                                           Gateway: 192.168.0.99 Static Route information - add to Router for Layer 3 access
Luxul Stack configuration (use MAC Address to identify Stack unit ID (SID)):
         a4-13-4e-2b-e8-01
                                                                    Stack Unit IDs
SID 2: a4-13-4e-2c-32-1f
Just Add Power Device Configuration:
  Stack & Port TX/RX # MAC Address
                                                   IP Address Subnet Mask
                                                                               Gateway
                                                                                                2G/3G
                                                                                                             Firmware
Unit 1, port 2) Transmitter 1 [c2:00:00:01:99:47], 10.0.0.2 / 255.0.0.0 (gateway 10.0.0.1)
                                                                                                2G A5.3.1 FC+4+
2G A5.3.1 FC+4+
Unit 1, port 3) Transmitter 2 [c2:00:00:00:6b:74], 10.0.0.6 / 255.0.0.0 (gateway 10.0.0.5)
Unit 1, port 4) Transmitter 3 [c2:00:00:00:f6:4b], 10.0.0.10 / 255.0.0.0 (gateway 10.0.0.9)
                                                                                                  2G
                                                                                                          A5.3.1 FC+4+
```

# File Location (based on Windows 8 64-bit)

C:\Program Files (x86)\Just Add Power\JADConfig\Reports

File is named according to the date and time that JADConfig completed.

# **Static Route - Enable Layer 3**

A Static Route is needed in order for Layer 3 features of Just Add Power to work.

Feature	Layer 2	Layer 3
Matrix Switching	<b>~</b>	<b>₩</b>
RS-232 control of endpoints	<b>₩</b>	<b>₩</b>
	Limited	
CEC control		<b>~</b>
Video Wall management		<b>₩</b>
Logical USB enable/disable		<b>₩</b>
On-screen Display		<b>₩</b>
Image Pull – preview video from a source or display		<b>₩</b>
Image Push – upload a background image	<b>~</b>	<b>₩</b>
Gigabit internet access on same CatX cable		<b>*</b>

There are two ways to enable Layer 3 access to Just Add Power devices:

- 1. The router in the system supports Static Routing. Add a Static Route to the router.
- 2. Change the default gateway of the control system.

# **Router with Static Route**

- 1. Confirm that the router support Static Routing. If it does not, follow <a href="Change Default Gateway">Change Default Gateway</a> instructions instead.
- 2. Locate the Static Route information in the JADConfig Report.
- 3. Log into the router Static Route section. Static Route is often in Network, Routing, or Advanced sections.



Static Route page on a Luxul ABR-4400

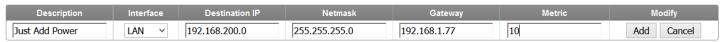
4. Enter the Static Route information from the JADConfig Report into the router. If asked for a Metric, use 10.

Note that the following static route must be added to your router so that the control system can access the JAP devices:

Network: 192.168.200.0 Netmask: 255.255.255.0 Gateway: 192.168.1.77

Static Route information from JADConfig Report

### **Add Static Route**



Adding Static Route to Luxul ABR-4400

5. Done! All devices on the network can access Just Add Power devices.

# **Change Default Gateway**

These steps will give a single device Layer 3 access to Just Add Power devices. Use this method if the router does not support Static Routing or to limit which devices can access Just Add Power devices.

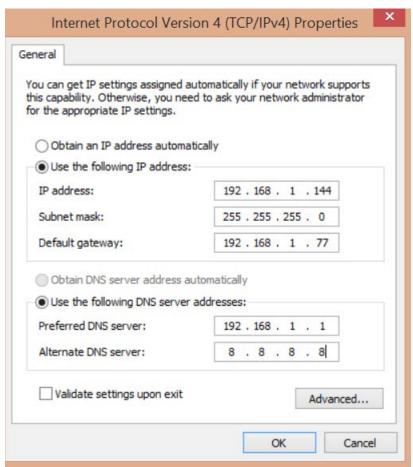
1. Locate the Static Route information in the JADConfig Report.

Note that the following static route must be added to your router so that the control system can access the JAP devices:

Network: 192.168.200.0 Netmask: 255.255.255.0 Gateway: 192.168.1.77

Static Route information from JADConfig Report

- 2. Access the IP details of the computer/control system.
- 3. Manually set the IP details so that the Default Gateway of the computer/control system matches the Default Gateway given in the JADConfig Report.



Manually set Default Gateway

Note: Devices will still have internet access as long as DNS information is entered correctly.

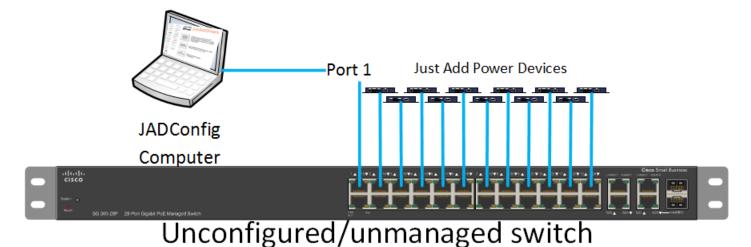
4. Done. The computer/control system can now access Just Add Power devices.

# Firmware Update Only

Firmware Update Only

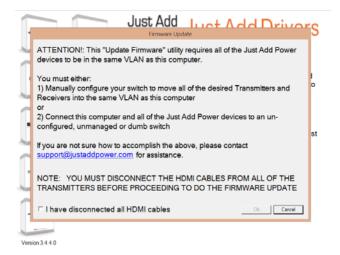
Just update the firmware on any JAP devices visible on your LAN

Use this mode to update firmware on Just Add Power devices without configuring the switch. This mode requires that the Just Add Power devices are connected in the same network as the computer. This can mean that the computer and Just Add Power device are connected point-to-point, or that they are connected together through an <u>unmanaged</u> or <u>unconfigured</u> switch.

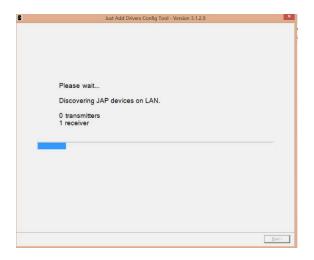


### **Instructions**

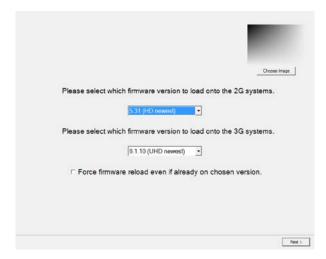
- 1. Select Firmware Update Only from the opening screen
- 2. Read the warning that appears and disconnect all HDMI cables from Transmitters. Click OK.



3. JADConfig will discover devices that are connected to the network and show a brief summary of what it discovered. If not all devices were discovered, click **Rescan**. To move forward, click **Next>**.



- 4. Choose a firmware version to load onto the devices. Just Add Power recommends using the latest firmware version
  - a. Latest firmware for 3G is A6.1.10 (Listed as 6.1.10)
  - b. Latest firmware for 2G is A5.3.1 FC+4+ (Listed as 5.31)
- 5. Select <u>Choose Image</u> to load an Image Push background image on each Receiver to show when there is no video content.
  - c. A . jpg image with 24-bit color depth must be used
  - d. Any resolution image can be used, but will be displayed in 640 x 480



6. Firmware will be updated on the devices and a summary will be given when finished.

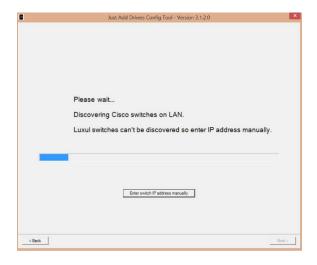
# **Test**

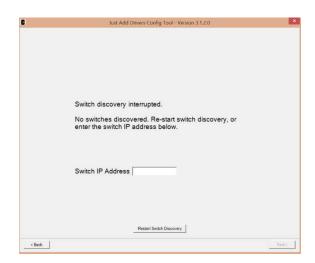


- Once a switch has been configured with JADConfig, <u>Test (Cisco/Luxul)</u> will act as an HDMI Matrix controller without the need for a control system.
- Test only performs input/output switching and does not provide support for Layer 3 features

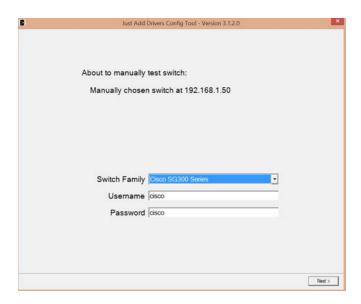
## **Instructions**

- 1. Select **Test** from the opening screen
- 2. Wait for JADConfig to discover compatible switches on the Local Area Network, or click **Enter switch IP address manually**

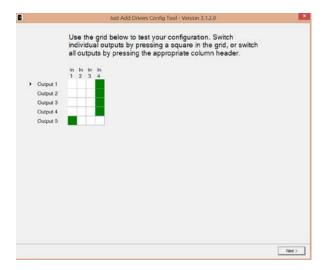




3. Select the Switch Family and enter the Username and Password



4. Use the grid image to switch inputs/outputs, and press **Next>** when finished.



# License Key

# **AMX**

Send an e-mail to drivers@justaddpower.com with the Serial Number of the AMX processor

# **Control4**

Send an e-mail to drivers@justaddpower.com with the MAC Address of the Control4 processor

# Crestron

Send an e-mail to <u>drivers@justaddpower.com</u> with the MAC Address or System ID (same as MAC Address) of the Crestron processor

# Elan G

No license key needed. Driver is included with g! Tools. Contact Elan G for more details on their Just Add Power driver.

### **OnControls**

No license key needed. Contact OnControls for more details on their Just Add Power driver.

# **RTI**

Send an e-mail to <a href="mailto:drivers@justaddpower.com">drivers@justaddpower.com</a> with the MAC Address of the RTI processor.

# **URC**

No license key needed. Contact URC for more details on their Just Add Power driver.

# Expanding a System

A Just Add Power system can be expanded whenever needed. As long as there is an open port on the switch, there is room for additional sources and displays.

There are 2 ways to expand a system:

1) Disconnect HDMI cables from all Transmitters and run JADConfig from the beginning. Change the number of Transmitters and Receivers to fit the new system size and continue through JADConfig as normal. See <a href="Configure Switch & Devices">Configure Switch & Devices</a> for more info.

Configure Switch and Devices Configure your switch and JAP devices based on answers to a few simple questions about your system configuration

2) If additional Transmitter/Receivers ports were configured for future expansion during the initial run, then the switch already has open ports for the addition of Just Add Power devices. In this case, there is no need to re-run JADConfig.



a. Use the web interface of the new Just Add Power device(s) to manually update the firmware to match the firmware on the running system.



b. Set the IP Address according to the Report file from the initial running of JADConfig



c. Connect the unit to the correct port on the switch. Finished!

# **Troubleshooting**

# No serial ports were found

This message will appear if the computer does not detect a serial port present on the computer.



### **Solution:**

- 1) Connect a USB-to-Serial adapter to the computer and try again. If one is already connected, then it is not being recognized. Try re-connecting it or checking the driver for the adapter.
- 2) Try a different USB-to-Serial adapter or a different USB port on the computer.

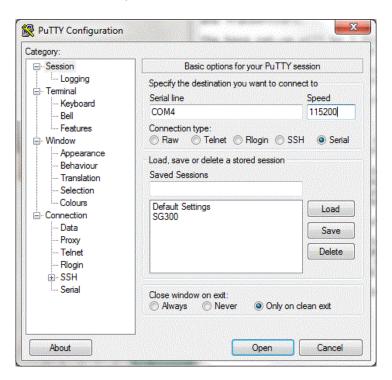
# Stuck at "Checking communication with switch"

The "Checking communication with switch" step takes less than 10 seconds to complete. If the window remains on the screen for longer, then either the switch has recently rebooted or there is a serial communication issue between the computer and the switch.



### **Solution:**

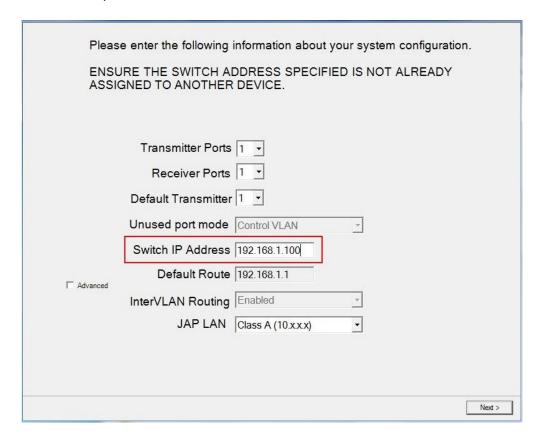
1) Confirm that serial communication is working. Open a PuTTY session (or other terminal emulation software) at baud rate <u>115200-8n1</u> and attempt to manually communicate with the switch. If there is no communication, perform the steps below in PuTTY one-by-one until communication is established.



- a. If possible, always use the serial cable that came with the switch. This removes any Null Modem issues.
- b. Try adding a Null Modem to the connection. This will fix a straight-through/null modem cable issue.
- c. Try a different serial cable or a different Serial-to-USB adapter.
- d. Power-cycle the switch (remove power for 5 seconds, then re-apply power). This will return the switch baud rate to the default <u>115200-8n1</u> setting.
- 2) Reset switch to factory default settings. Switches that have been previously configured could have communication issues. If still stuck at "checking communication with switch", retry solution 1 at factory defaults.
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# Message box "Duplicate IP address found"

This message is only a warning. It means that the IP address of the switch needs to be changed (see screen below) because there is a device already on the network that has that IP.



### **Solution:**

1) Close the message box that comes up. Choose an IP address for the switch that is not already in-use on the network.

# **Device Discovery Errors**

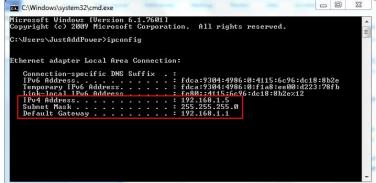
In most cases, discovery will go smoothly. However, the Local Area Network topology, software, and hardware running on-site can affect the ability of JADConfig to discover Just Add Power devices in the system.

### Some Devices Discovered

There are many variables in a network that could cause JADConfig to discover some – but not all – Just Add Power devices in a system. The steps below are listed in order of the most common causes of partial discovery.

### **Solutions:**

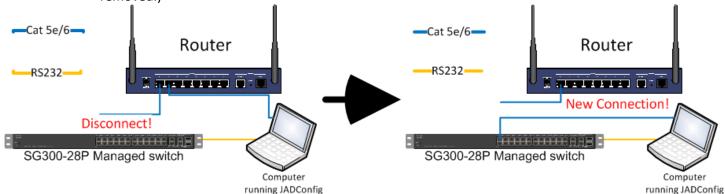
- 1) Confirm that the most up-to-date version of JADConfig is running. The most recent version can always be found at support.justaddpower.com under the section *JADConfig*.
- 2) Confirm that all HDMI cables are **DISCONNECTED** from Just Add Power Transmitters; Transmitters sending video will flood a network with traffic and prevent discovery.
- 3) Confirm that all Just Add Power devices are attached to the network and powered on. A Just Add Power device that is properly connected will display a solid Power light and a blinking Data light.
- 4) Confirm that the network is connected to **ONLY** port 1, and that there are no other network devices attached to the Just Add Power Managed Ethernet switch. (Other network devices can be reconnected AFTER setup is completed).
- 5) Use a Windows native PC. Mac hardware running Windows may not bind the network adapters correctly, causing devices to not be discovered.
- 6) Disable all other network adapters present on the computer Multiple network adapters could cause the computer to send discovery requests to the wrong network.
  - a. Go to Network and Sharing Center  $\rightarrow$  Change Adapter Settings
  - b. **DISABLE** the unused network devices
  - c. This should be done for both connected and disconnected adapters
  - d. This is especially important on Windows 8 computers
- 7) Disable any third-party firewall or anti-virus software.
- 8) Disconnect the network from port 1 of the switch and plug the computer directly into port 1 Firewalls, security settings, etc. can interfere with discovery. Bypass the Local Area Network with the following steps:
  - a. Write down the router's IP and the IP address and subnet mask of the computer while it is connected to the network. This can be found by opening a Command prompt (cmd.exe) and typing ipconfig.



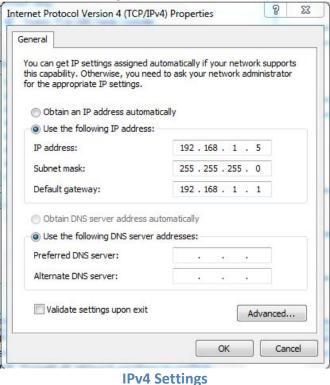
Example - Computer: 192.168.1.5, Subnet Mask: 255.255.25.0, Router: 192.168.1.1

b. Disconnect the network from port 1 of the Managed switch.

c. Connect the computer's wired connection to port 1 of the Managed switch (where the network was just removed.)



- d. On the computer, go to Network and Sharing Center -> Local Area Connection -> Properties -> Internet Protocol Version 4 (TCP/IPv4) -> Properties.
- e. Select "Use the following IP address". Input the computer's IP in the "IP address" box, computer's subnet mask in the "Subnet mask" box, and the router's IP in the "Default gateway" box. Leave DNS information blank. Select 'OK' through all network windows to confirm.



- f. Re-run JADConfig from the beginning with the Local Area Network bypassed. At one point a warning message that says "Cannot ping the default gateway" will appear. Click 'OK', ignore it, and continue.
- g. Once JADConfig has completed, reconnect the network to port 1 of the Managed switch.

# No Devices Discovered

If no Just Add Power devices are found, it may mean that the discovery process never properly started. If this has happened, the progress bar on the discovery window will not move at all, and JADConfig will report that no devices were discovered.

# Please wait... Discovering JAP devices on LAN. No JAP devices discovered.

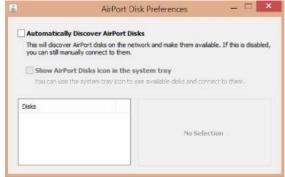
## **Solutions:**

- 1) Follow troubleshooting instructions in <u>Some Devices Discovered</u>. The same issues that cause some devices to be discovered can also cause no devices to be discovered.
- 2) Disable all other network adapters present on the computer Multiple network adapters could cause the computer to send discovery requests to the wrong network.
  - a. Go to Network and Sharing Center  $\rightarrow$  Change Adapter Settings
  - b. **DISABLE** the unused network devices
  - c. This should be done for both connected and disconnected adapters
  - d. This is especially important on Windows 8 computers

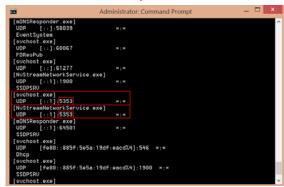
3) There is a background program running on the computer that is preventing JADConfig from accessing the computer's discovery port – port 5353.

AirPort Disk Preferences – F

- a. Common programs that block port 5353
  - i. Apple AirPort Base Station Agent
    - Open AirPort Disk Preferences...
    - Uncheck the "Automatically Discover AirPort Disks" box
  - ii. Google Update
    - Close the program
  - iii. Cloud-based syncing programs
    - Close the program
  - iv. Skype
    - Close the program and background process
- b. Search for the program that is blocking port 5353
  - i. Open an Administrator Command Prompt (cmd.exe)
  - ii. Run command: netstat -ab
  - iii. Search the output for program(s) using port 5353 and close them.



Uncheck Automatically Discover AirPort Disks



Port 5353 Programs

# **Contact Support**

## **Hours**

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