



## Integration Note

Manufacturer:	JustAddPower (Cisco Switches)
Model Number(s):	SG300-10 / 10P / 10MP / 20 / 28 / 28P / 52 SG500-28 / 28P / 52 / 52P SG500X-24 / 24P / 48 / 48P
Minimum Core Module Version:	6.4.200
Document Revision Date:	08/6/2013

### **OVERVIEW AND SUPPORTED FEATURES**

The JustAddPower HDMI over IP system provides matrix switching of HDMI systems over IP/Cat-5 using a Cisco managed switch. JustAddPower matrix switches communicate with the **g!** system via Ethernet, allowing reliable control and feedback.

### **JUSTADDPower SYSTEMS SUPPORT THE FOLLOWING FEATURES:**

**Matrix Source Selection:** The **g!** Viewer interface, zone slaving, or Event Maps can be used to select sources by zone from the **g!** system. Feedback is provided to keep the **g!** Viewer in sync with the current state of the switch. Any input may be sent to any output.

**Input and Output Discovery:** Configurator will discover and automatically populate in **g!** the inputs and outputs that have been configured on the switch, and there is no need to specify the size of the switch (7x5, 4x4 etc.) manually.

**IP to Serial:** The JustAddPower devices may contain serial ports that are usable as IP-to-Serial bridges in the **g!** system. See the *JustAddPower SOIP Integration Note* for information on this feature.

### **THE FOLLOWING FEATURES ARE NOT SUPPORTED:**

**Other Switch Makes/Models:** The JustAddPower system supports other makes and models of switch, but this driver supports only the above Cisco switch models.

**Zone Off:** No zone off command exists for JustAddPower systems. When **Zone Off** is selected in **g!**, technically, the zone remains on.

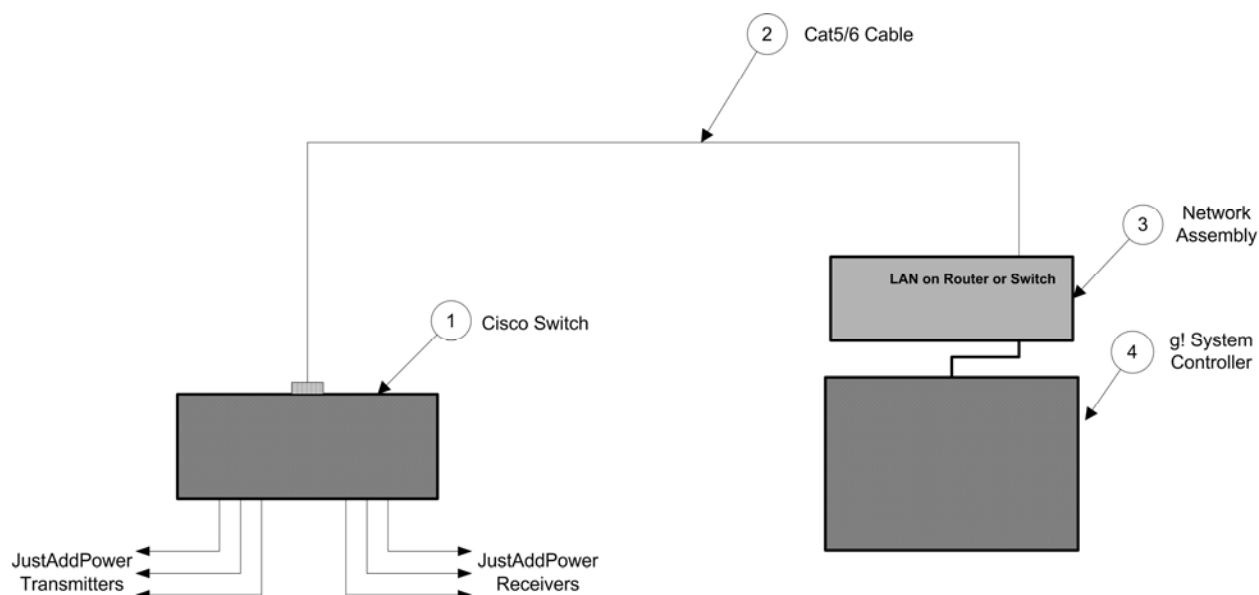
**Audio/Video Control:** JustAddPower devices do not support any modification of the audio or video signal.

**Independent Audio/Video Switching:** All A/V signals from the JAP system are linked. It is not possible to route audio from input 1 and video from input 2 to output 3, for example.

Any feature not specifically noted as supported should be assumed to be unsupported.
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## CONNECTION DIAGRAM: ETHERNET CONTROL

Refer to the **Bill of Materials** and **Wiring Diagram** that follow.



## BILL OF MATERIALS

#	Device	Manufacturer	Part Number	Protocol	Connector Type	Notes
1	Managed Switch	Cisco	Various (e.g. SG-500)	Ethernet	RJ-45 Female	
2	Cat5 Cable Assy.	N/A	N/A	Ethernet	RJ-45 Male X RJ-45 Male	
3	Network Assembly	N/A	N/A	Ethernet	RJ-45 Female	
4	g! Controller	ELAN	Various (e.g. HC12)	Ethernet	RJ-45 Female	

## JUSTADDPower SETUP

The JustAddPower system should be configured using the JustAddDrivers configuration utility (available from your JustAddPower dealer, or via [www.justadddrivers.com](http://www.justadddrivers.com)). When the configuration process completes, a report is generated by the tool which can be saved as a text file. This contains important information required for configuration of the **g!** driver.

## g! SETUP

In Configurator, go to the **Media** tab and add a new Ethernet communication device, selecting **JAP HD over IP Cisco Switch** as the Communication Type. Enter the IP address of your Cisco switch (or the IP address of the master switch where a “stack” configuration is used). NOTE: This is the “Gateway” address in the report generated by the JustAddDrivers tool upon completion.

Next, right click on **Zone Controllers** and choose to add a new controller, selecting **JAP HD over IP Switch** from the list. Ensure your newly added controller has the correct Communication Device selected. The discovery process is entirely automatic, so all defined JustAddPower sources and zones should automatically appear in Configurator.

## g! CONFIGURATION DETAILS

The following table provides settings used in the **g!** Configurator. Please refer to the Configurator Reference Guide for more details.

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|--|--|
| ○ “<Select from list>”<br>in the Configurator. | Select the appropriate item from the list (or drop-down) |
| ○ “<User Defined>”, etc.                       | Type in the desired name for the item.                   |
| ○ “<Auto Detect>”, etc.                        | The system will auto detect this variable.               |

Refer to the **g! System Programming Details** below for additional information.

Devices	Variable Name	Settings (Ethernet)
Communication Devices	Name	<User Defined> (Default: <b>New Device</b> )
	System #	<Auto Detect>
	Device Type	<b>Ethernet / JAP HD over IP Cisco Switch</b>
	Enable Sharing	<Select from list>
	Sharing Port	<Auto Detect>
	IP Address	<User Defined> (Enter address of Cisco switch)
	Port	<Auto Detect>
Zone Controllers	Name	<User Defined> (Default: <b>JAD HD over IP Switch</b> )
	System #	<Auto Detect>
	Device Type	<b>JAD HD over IP Switch</b>
	Communication Device	<Select from list> (Choose Ethernet Communication Device)
Sources	System #	<Auto Detect>
	Source Device	<Select from list>
	Display Icon	<Select from list>
	Source Volume	<Auto Detect>
	Display Name	<User Defined>
Zones	Name	<User Defined> (Default: <Auto Detect>)
	System #	<Auto Detect>
	Universal Receiver	<Select from list>
	Display 1	<Select from list>
	Display 2	<Select from list>
	Slave Zone 1	<Select from list>
	Slave Zone 2	<Select from list>
	Turn On Source	<Select from list>

## COMMON MISTAKES

## No Devices Are Discovered

- Check the IP address of the communication device matches the IP address of the Cisco switch.
- Ensure the network is correctly configured according to the JustAddDrivers documentation, so that the Cisco switch and the **g!** controller can communicate with each other (particularly, the addition of a “static route” to your router).
- If the Cisco switch has recently been started or restarted, it may take several minutes for the devices to appear.