



Just Add Drivers

Installation and configuration of a  
Crestron driver for a Just Add Power  
JPSW system

Software written and provided by



# CRESTRON JPSW SWITCHING MODULE

## Introduction

This module is designed to control the switching of sources to displays in a Just Add Power JPSW HD Over IP Video System. This module will connect, collect the current configuration for the switch and produce clean and quick changes between sources.

This Crestron module has been tested with the Luxul SW-610-48P-F switch and was written and tested using Crestron Simpl Windows version 4.17.03 running on a CP3 Crestron processor.

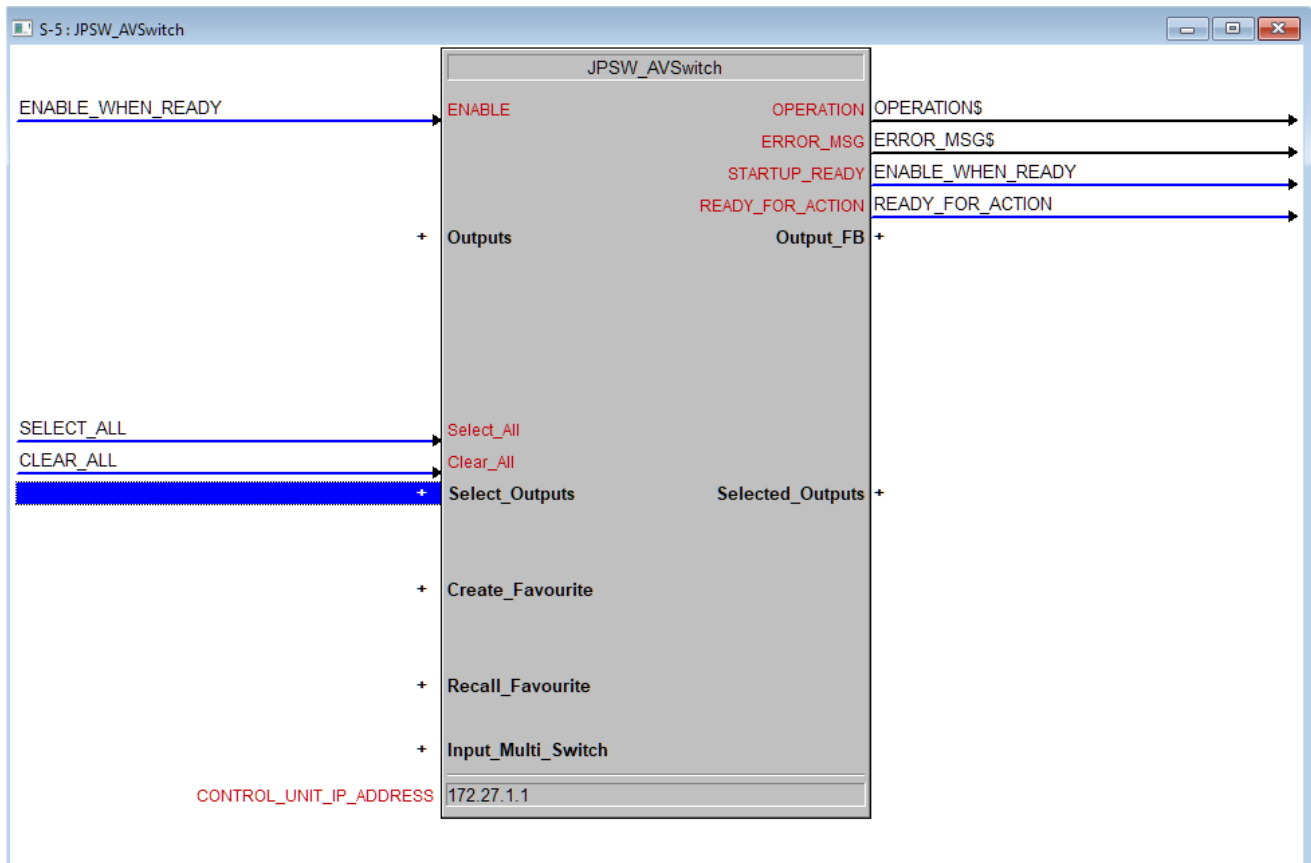
## Crestron Configuration

### Adding the module to your project

Open your Crestron Simpl Windows program. Copy the following files to the folder where your program is stored:

JPSW AVSwitch v`x.yy`.umc  
JPSW AVSwitch v`x.yy`.ush  
JPSW AVSwitch v`x.yy`.usp

Click **Tools -> Reload Device and Symbol Libraries from disk**. The JPSW AVSwitch module will appear in your Symbol Library under **Project Modules -> Switcher**. The current version of the module is indicated by the v`x.yy` suffix. Add the module to your program.



## Configure Properties

### Input to module

Name	Type	Explanation
ENABLE	DIGITAL	When this input signal goes high it starts the operation of the driver. Under normal circumstances, this should be tied to the STARTUP_READY output signal so that the driver starts operation as soon as its code is initialised and ready.
OUTPUT_ <i>[output]</i>	ANALOG	When this input signal changes it switches the corresponding matrix output to the input specified by the analog signal value (provided that the number is valid).
Select_All	DIGITAL	When this signal goes high, all outputs are selected in preparation for a create favourite or multiple switch operation (see below).
Clear_All	DIGITAL	When this signal goes high, all outputs are deselected in preparation for a create favourite or multiple switch operation (see below).
Output_Select_ <i>[output]</i>	DIGITAL	When this input signal goes high, it selects the corresponding output in preparation for a create favourite or multiple switch operation (see below). Setting it low deselects it.
Create_Favourite_ <i>[n]</i>	DIGITAL	When this input signal goes high, it creates a favourite number <i>n</i> , using the current input values (as shown on the OUTPUT_FB... signals) of the outputs selected using Output_Select... signals.
Recall_Favourite_ <i>[n]</i>	DIGITAL	When this input signal goes high, it recalls the favourite number <i>n</i> , causing all the corresponding matrix outputs to be switched to their saved inputs.
Input_Select_ <i>[input]</i>	DIGITAL	When this input signal goes high, it switches all the matrix outputs selected using the Output_Select... signals to the given matrix input.

## Output from module

Name	Type	Explanation
OPERATION\$	STRING	Shows the current state of the switch. <i>See "Troubleshooting"</i> .
ERROR_MSG\$	STRING	Initialised with an error string in the event of an error.
STARTUP_READY	DIGITAL	Set high when the driver code has initialised.
READY_FOR_ACTION	DIGITAL	Set high when communication has been established with the controller unit.
OUTPUT_FB_ <i>[output]</i>	ANALOG	Current matrix input of that particular matrix output.
Select_Output_ <i>[output]</i> _FB	DIGITAL	Set high if the given output has been selected using the corresponding Output_Select... signal.

## Parameter of module

Name	Type	Explanation
CONTROL_UNIT_IP_ADDRESS	STRING	The IP address of the Just Add Power unit being used as the control point for the system, for example: 192.168.5.18. The unit can be any unit in the system to which the Director has a valid network route.

## Troubleshooting

The current status of the module is shown on its OPERATION\$ output. Always allow a minute for the status to settle after changing any properties, connections or other project settings, or after refreshing or updating anything. After a minute, the OPERATION\$ output should show one of the following messages:

Operational $nxm$	The switch is in full operational mode with $n$ inputs and $m$ outputs
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Any other message indicates a possible problem. The possible messages are:

Not connected	This should only be seen temporarily during the module settling period. If this message is seen for more than 1 minute, contact your supplier for support.
Connecting	The module is attempting but failing to connect to the control unit. Check that you have correctly configured the IP address for the unit and that the unit and Director have been configured with compatible IP addresses and net masks.
Connected	This should only be seen temporarily while the module queries the initial matrix configuration. If this message is seen for more than 1 minute, contact your supplier for support.
Querying size	This should only be seen temporarily while the module queries the initial matrix configuration. If this message is seen for more than 1 minute, contact your supplier for support.