



AVPro Edge Q-SYS Plugins

The following Q-SYS plugin is detailed in this document:

MXnet

Prerequisites

Before configuring the plugin:

- Obtain the IP address of the mxnet controller device (AC-MXNET-CBOX)

Configuration Overview

1. Drag the plugin into your schematic.
2. Press F5 to save your design to the Core and run it. (Or, press F6 to emulate your design.)
3. In your schematic, double-click the plugin to open the component's control panel.
4. In the Config tab, establish a connection by entering the IP address. See [Config](#).

Properties

Input Count

Number of transmitter devices.

Output Count

Number of receiver devices.

Video Wall Size

Select the required video wall size you are using.

Debug Mode

Dev use only

Debug Level

Dev use only

Debug Subsystems

Dev use only

Show Debug

Enables the debug window

Controls

For further explanation of the functions that follow, please refer to the user manual on the [AVPro Edge product pages \(https://www.avproedge.com/\)](https://www.avproedge.com/).

Config

Control Pin	Function	Default/Range
IP Address	Type the IP address of the MXnet controller the driver should connect to.	
Port	Fixed to port 23.	Read only
Status	Displays the current connection status and any applicable error.	Read only
Auto Configure Aliases	Automatically configures aliases. If any devices already have valid alias names configured, then these will remain unaltered. All other devices will be assigned alias names in ascending sequence, filling in any gaps in the numbering sequence.	Trigger
Clear All Aliases	Resets configuration names to factory default. Note use with caution.	Trigger
Display Devices	Prints a report in the Debug window detailing all discovered devices, and any alias naming problems detected	Trigger
Rediscover Devices	Forces rediscovery of devices	Trigger

Routing

Control/Pin	Function	Default/Range
<u>Video Routing</u>		
Output Bank x Input Bank y	Set video bank output to a bank input	Toggle
<u>OutputBank</u>		
Next	Select next bank of outputs (if number of receivers > 10)	Trigger
Output x	Output number bank output refers to.	Read only
Prev	Select previous bank of outputs (if number of receivers > 10)	Trigger
<u>InputBank</u>		
Input y	Input number bank input refers to.	Read only
Next	Select next bank of inputs (if number of transmitters > 10)	Trigger
Prev	Select prev bank of inputs (if number of transmitters > 10)	Trigger
<u>Output x</u> (pin only)		
Input y Select (pin only)	Route input y to output x directly (not using bank controls)	Toggle
Select (pin only)	Change the selected input for output x	Text - Transmitter number to select (e.g. "25")

Device

Control	Function	Default/Range
List Inputs	Which inputs to control	Text - e.g. "1-4" selects inputs IN1 to IN4, whereas entering "4,5,6" will select inputs with aliases IN4, IN5, IN6
List Outputs	Which outputs to control	Text - e.g. "1-4" selects outputs OUT1 to OUT4, whereas entering "4,5,6" will select outputs with aliases OUT4, OUT5, OUT6
Reboot	Reboots specified input and output devices	Trigger
Light On	Sets state of LED indicators on specified devices to On (normal operation)	Trigger
Light Flash	Sets state of LED indicators on specified devices to Flash (useful for identifying physical device)	Trigger
Light Off	Sets state of LED indicators on specified devices to Flash (useful in situations where the light may be visible in a darkened room)	Trigger
Reboot All Devices	Reboots all devices	Trigger

Receiver

Control	Function	Default/Range
Receivers	Which outputs to control	Text - e.g. "1-4" selects outputs OUT1 to OUT4, whereas entering "4,5,6" will select outputs with aliases OUT4, OUT5, OUT6
Select Resolution	Selects desired resolution for selected receivers	"1280 x 720 50fps", "1280 x 720 60fps", "1920 x 1080 24fps", "1920 x 1080 50fps", "1920 x 1080 60fps",

		"3840 x 2160 30fps", "Pass-through"
OSD On	Switches OSD display on on selected output devices	Trigger
OSD Off	Switches OSD display off on selected output devices	Trigger
CEC On	sends CEC power on command to selected output devices	Trigger
CEC Off	sends CEC power off command to selected output devices	Trigger
CecHex	Hex command to send to selected output devices.	Text - eg 0036
SendCecHex	sends CEC hex command to selected output devices	Trigger
OSD All On	Switches OSD display on on All output devices	Trigger
OSD All Off	Switches OSD display off on All output devices	Trigger

Transmitter

Control	Function	Default/Range
List Transmitters	Which inputs to control	Text - e.g. "1-4" selects inputs IN1 to IN4, whereas entering "4,5,6" will select inputs with aliases IN4, IN5, IN6
EDID	Selects EDID on selected transmitter devices	"1080P_6CH", "1080P_3D_2CH", "1080P_3D_6CH", "4K30Hz_3D_2CH", "4K30Hz_3D_6CH", "4K30Hz_3D_8CH", "1080P_2CH_HDR", "1080P_6CH_HDR", "1080P_3D_2CH_HDR", "1080P_3D_6CH_HDR", "4K30Hz_3D_2CH_HDR", "4K30Hz_3D_6CH_HDR", "4K30Hz_3D_8CH_HDR", "1920X1200_2D_2CH_HDR", "User EDID"
AudioType	Selects Audio Type on selected transmitter devices	"HDMI", "Analog", "Auto", "Auto_1", "Auto_2"

Serial

Control	Function	Default/Range
List Transmitters	Which transmitter devices to control	Text - e.g. "1-4" selects inputs IN1 to IN4, whereas entering "4,5,6" will select inputs with aliases IN4, IN5, IN6
List Receivers	Which receiver devices to control	Text - e.g. "1-4" selects outputs OUT1 to OUT4, whereas entering "4,5,6" will select outputs with aliases OUT4, OUT5, OUT6
Baud Rate	Select serial pass-through baud rate for listed devices	"0", "300", "600", "1200", "2400", "4800", "9600", "19200", "38400", "57600", "115200"
Data Bits	Select serial pass-through data bits for listed devices	"7", "8"
Stop Bits	Select serial pass-through stop bits for listed devices	"1", "2"
Data Parity	Select serial pass-through parity for listed devices	"None", "Odd", "Even",
Send Settings	Configure listed devices with the defined serial-passthrough settings	Trigger
Command To Send	Command to send via serial pass-through on the listed devices	Text: Command to send
Send Command	Sends the command using serial-passthrough on each of the listed transmitters and receivers	Trigger

VideoWall

Control	Function	Default/Range
Videowall Name	The name of the video wall to configure	Text
Videowall Input	Select the input source to display on the video wall	1-10
VideoWall Rotation	When 2x2 is selected as the video wall size in properties, this dropdown is available to rotate the top row to account for thicker bezel at the bottom	No rotation, Top Row Inverted
ScreenX, ScreenY	The total width, total height of each screen (in millimeters) including physical bezel and visible/active area of panel.	
ImageX, ImageY	The width, height of the visible/active area of panel (in millimeters).	
Video Wall Screen VideoWallOutputs	Select the physical output for each of the video wall screens	1-9
Generate Video Wall	Triggers the commands to create the video wall with the parameters provided by the above controls.	Trigger
Remove Video Wall	Remove the video wall configuration.	Trigger
Switch Wall Name	The name of the video wall to switch.	Text
Switch Wall Input	The input source to switch the video wall to.	Trigger
Switch	Sends the commands to switch the video wall to the new input source	Trigger