

Integration Note

Manufacturer:	Vanco International
Model Number(s):	EVMX44PRO EVMX88PRO
g! Core Module Version:	8.5 build 18.0
Driver Developer:	Control Concepts, Inc.
Document Revision Date:	1/19/2021

Overview & Supported Features

The Vanco Evolution EVMX44PRO and EVMX88PRO are HDMI video switchers used to distribute video and audio content to multiple viewing endpoints (rooms). The EVMX44PRO includes 4 inputs, the EVMX88PRO includes 8 inputs. The driver allows the ELAN programmer to integrate with either model switcher, providing control and feedback for the switcher state. Two drivers are included, one uses TCP/IP communication, the other uses RS232 communication.

THE FOLLOWING OPTIONS ARE SUPPORTED BY VANCO EVOLUTION EVMX44PRO/EVMX88PRO:

- Switch input source to zone
- Analog volume raise
- Analog volume lower
- Analog volume pulse up
- Analog volume pulse down
- Analog volume mute
- Enable/Disable IR switching follows video switching
- Lock/Unlock front panel buttons
- Save preset
- Recall preset

Any feature not specifically noted as supported should be assumed to be unsupported.
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Vanco Evolution EVMX44PRO/EVMX88PRO Configuration

The EVMX44PRO or EVMX88PRO switcher will need to be installed according to the Vanco Evolution installation document prior to integrating the unit. The switcher will need to be connected to the IP network and be reachable from the ELAN controller, or be connected to the ELAN controller using an RS232 cable. If using an IP network connection, the IP address of the switcher will need to be entered in the ELAN configurator.

g! Configuration

The EVMX44PRO and EVMX88PRO are categorized as a Media device.

Installation Process

It is recommended that you follow the installation process below.

1. Open Configurator and connect to your Elan controller.
2. Add the EVMX44PRO or EVMX88PRO as a new Zone Controller under Media. Click **Media**, then right-click **Zone Controllers** -> **Add New Zone Controller** to browse for the driver. Click **Search Folder** to browse for the folder where the EVMX44PRO and EVMX88PRO drivers are located. Select either the network driver or serial driver depending on your device connection.
3. Once the driver is added to the list of zone controllers, click the driver to show the configuration page of driver settings.

The screenshot displays the ELAN Configurator interface. On the left, a tree view shows the hierarchy: Communication Devices, Serial Port, Sources (Blu-Ray, AppleTV, Cable, Tivo), Video Displays, Zone Controllers, and Vanco Evolution HDMI Switcher Network. The 'Vanco Evolution HDMI Switcher Network' item is selected. On the right, the 'Zone Controller : Vanco Evolution HDMI Switcher Network' configuration page is shown. It contains various settings for the device, including Name, System #, Status Color Coding, Status, Driver Version, Driver Vendor, Installed date, Device Type, Model, Power, Debug Mode, IR Follow Video Switching, Front Panel Buttons, Save Preset, Recall Preset, IP Address, and Port.

Zone Controller : Vanco Evolution HDMI Switcher Network	
Name	Vanco Evolution HDMI Switcher Network
System #	9062
Status Color Coding	Enabled
Status	Initialized
Driver Version	1.0.0
Driver Vendor	"Control Concepts, Inc."
Installed	1/14/2021 9:20
Device Type	Vanco Evolution HDMI Switcher Network
Model	4X4 (EVMX44PRO)
Power	On
Debug Mode	Disabled
IR Follow Video Switching	Disabled
Front Panel Buttons	Enabled
Save Preset	Preset 2
Recall Preset	Preset 7
IP Address	192 . 168 . 196 . 160
Port	4001

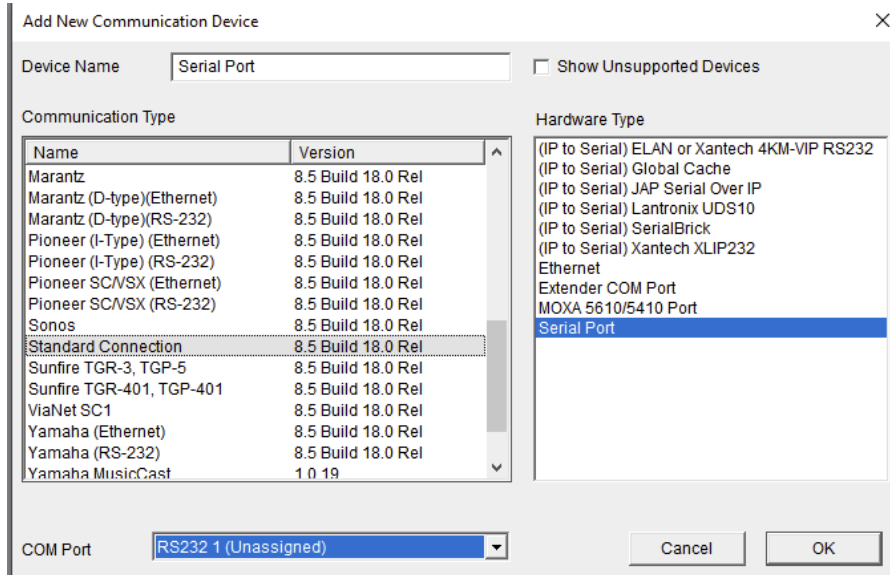
Configuration Page for Network Driver

Zone Controller : Vanco Evolution HDMI Switcher Serial	
Name	Vanco Evolution HDMI Switcher Serial
System #	10281
Status Color Coding	Enabled
Status	■ Initialized
Driver Version	1.0.0
Driver Vendor	"Control Concepts, Inc."
Installed	1/19/2021 12:29
Device Type	Vanco Evolution HDMI Switcher Serial
Model	8X8 (EVMX88PRO)
Power	On
Baud	9600
Debug Mode	Disabled
IR Follow Video Switching	Disabled
Front Panel Buttons	Disabled
Save Preset	Preset 1
Recall Preset	Preset 1
Communication Device	Serial Port

Configuration Page for Serial Driver

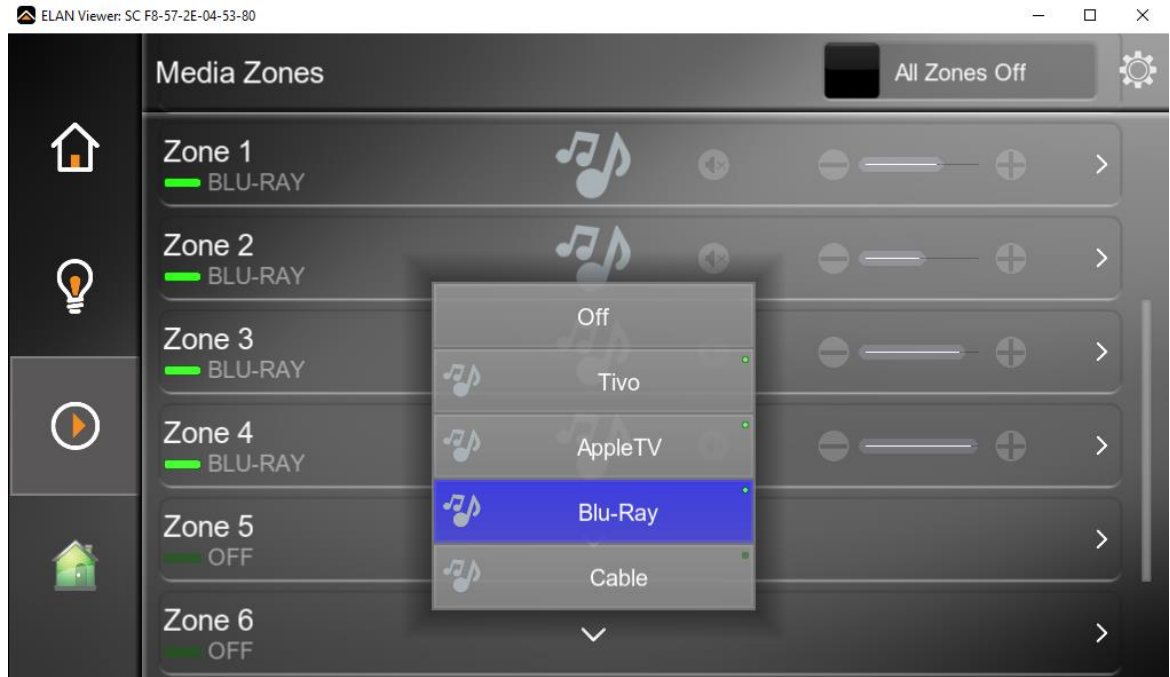
- For the network driver, enter a static IP address for the switcher you wish to control. The default port is 4001 and cannot be changed. Click **Apply** at the bottom of the driver configuration page to update the driver with the IP address.

For the serial driver, add the serial port to the Communication Devices list. Right-click **Communication Devices** -> **Add New Communication Device**. Select **Standard Connection** from the **Communication Type** window and select **Serial Port** from the **Hardware Type** window. Select the Comm Port the controller will use to connect to the switcher. Click **OK**.



After adding the Serial Port, click on the serial driver from Zone Controllers. In the configuration settings of the driver, select the Serial Port for **Communication Device**. Click **Apply** at the bottom of the driver configuration page to update the driver with the RS232 connection.

5. Once a connection has been established with the switcher, the status color will turn yellow while the driver conducts its initialization process. The status color will turn green once the driver has fully initialized its state. The driver model and correct number of sources and zones will automatically populate. If connection is lost to the switcher, the status color will turn red.
6. Add video sources under the **Sources** node in the **Media** tab.
7. Expand the **Sources** node under the driver. Click each source node and select the appropriate source from the **Source Device** drop down field. The list of sources is comprised from the sources added in step 6. Sources correspond to inputs on the switcher. For example, if a cable box is connected to input 1 on the switcher, the cable box source should be selected for source 1 for the driver.
8. Open the Elan Viewer Application, select **Media**. You will see the list of available zones.
9. Click on one of the zones to select a source for that zone. This will cause the switcher to route the source input to the zone output. Once a source is selected for a zone, you will be able to control analog volume and mute of the zone.



You should now have full interaction with the EVMX44PRO or EVMX88PRO switcher through the driver.

g! CONFIGURATION DETAILS

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

In the table below:

- "<User Defined>", etc. Type in the desired setting for the item.
- "<Auto Detect>", etc. The system will auto detect this setting.

Devices	Variable Name	Setting	Comments
Media	Name	<User Defined> (Default: Vanco Evolution HDMI Switcher Network or Vanco Evolution HDMI Switcher Serial)	
	System#	<Auto Detect>	
	Status Color Coding	<User Defined >	
	Status	<Auto Detect>	
	Driver Version	<Auth Detect>	
	Driver Vender	Control Concepts, Inc.	
	Installed	<Auto Detect>	
	Device Type	Vanco Evolution HDMI Switcher Network or Vanco Evolution HDMI Switcher Serial	
	Model	<Auto Detect>	EVMX44PRO or EVMX88PRO
	Power	<Auto Detect>	Power state of the switcher
	Baud	<Auto Detect>	Serial driver only, 9600
	Debug	<User Defined>	When enabled, prints debug output to console
	IR Follow Video Switching	<User Defined>	When enabled, IR switching will automatically track with video switching
	Front Panel Buttons	<User Defined>	When enabled, front panel buttons are accessible
	Save Preset	<User Defined>	Store an input-output mapping to one of nine available presets
	Recall Preset	<User Defined>	Revert input-output mapping to one of the stored presets
	IP Address	<User Defined>	Network driver only
	Port	<Auto Detect>	Network driver only, 4001
	Communication Device	<User Defined>	Serial driver only

COMMON MISTAKES

Network Driver

1. Not assigning a static IP address to the switcher.
2. Not entering correct IP address in the driver settings of ELAN Configurator.
3. If the status indicator does not turn green, check your IP address and port to be sure they are correct. Be sure the ELAN controller can reach the switcher on the network. Click **Update Driver** at the bottom of the driver configuration page to reload the driver completely. The communication settings will be retained and used as the driver is reloaded.

Serial Driver

1. Not adding the Serial Port Communication device in Configurator.
2. Specifying the wrong serial port on the Serial Port communication device.
3. Using an incorrectly wired serial cable. Wiring must be null-modem configuration (TX of the Elan controller wired to RX of the switcher and RX of the Elan controller wired to TX of the switcher).
4. If the status indicator does not turn green, check all serial communication factors.
 - Verify the RS232 communication settings on the switcher. Baud rate: 9600, Data bits: 8, Stop bit: 1, Parity bit: none.
 - Verify the cable is wired in a null-model (cross-over) configuration.
 - Verify the cable is connected to the correct RS232 port on the Elan controller and connected to the port marked "CONTROL" on the switcher. The cable DOES NOT connect to the ports marked "RS232".
 - Verify the Serial Port Communication Device has been added to the **Communication Devices** node in the **Media** tab of Configurator.
 - Verify the Serial Port COM Port matches the physical port the cable is connected to and that the communication settings match the switcher settings above.
 - Verify the Serial Port communication device has been selected as the **Communication Device** setting on the driver configuration page.
5. Click **Update Driver** at the bottom of the driver configuration page to reload the driver completely. The communication settings will be retained and used as the driver is reloaded.

ELAN DEVELOPER PARTNER INFORMATION

For driver support, please contact Vanco International Technical Support:

techsupport@vanco1.com. 1 (800) 626-6445

This ELAN driver was written and supported by: Control Concepts Inc.



<https://www.controlconcepts.net>