

**VANCO EVMX44VW**

**Crestron Driver User Guide**

V1.0

# Introduction

This driver has been designed to provide control of the Vanco EVMX44VW Multiview HDMI switcher via RS-232 or TCP/IP.

# Installation

You need to copy all the files in the folder (EVMX44VW) to your project directory to support Simpl Windows to recognize the driver module.

* **For the RS-232 link use the following settings:**

Baud rate: 9600

Data bits: 8

Parity: None

Stop bits: 1

* **For the Tcp/Ip Client link use the following settings:**

**Ip：**The IP you set for the product, if not set, the factory default IP is **192.168.0.247**

**Port：**The Port you set for the product, if not set, the factory default Port is **23**

# Inputs

**The module has the following commands available as input:**

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Explanation** |
| **Dev\_RX** | **STRING** | Product information feedback input. |
|  |  |  |
| **GetSystemStatus** | **DIGITAL** | Get the status of the system, trigger on rising edge. |
| **GetTVWallStatus** | **DIGITAL** | Get the status of the TVWall, trigger on rising edge. |
| **GetInxFormatStatus** | **DIGITAL** | Get the status of the hdmi input format, trigger on rising edge. |
| **GetOutxTypeStatus** | **DIGITAL** | Get the status of the hdmi output type, trigger on rising edge. |
| **GetOutxFormatStatus** | **DIGITAL** | Get the status of the hdmi output format, trigger on rising edge. |
|  |  |  |
| **AudioOnlyOpen** | **DIGITAL** | Turn on standalone playback mode. |
| **AudioOnlyClose** | **DIGITAL** | Turn on standalone playback mode. |
| **AudioModeManual** | **DIGITAL** | Set the sound mode: manual setting. |
| **AudioModeAuto** | **DIGITAL** | Set the sound mode: follow the video. |
|  |  |  |
| **SetVideoRouting[1]** | **ANALOG** | Output port X to select the video input source: 1 -> Input 1 3 -> Input 3 2 -> Input 2 4 -> Input4 |
| **SetVideoRouting[2]** |
| **SetVideoRouting[3]** |
| **SetVideoRouting[4]** |
|  |  |  |
| **SetAudioRouting[1]** | **ANALOG** | Output port X to select the Audio input source: 1 -> Input 1 3 -> Input 3 2 -> Input 2 4 -> Input 4 |
| **SetAudioRouting[2]** |
| **SetAudioRouting[3]** |
| **SetAudioRouting[4]** |
|  |  |  |
| **SetInxAudioEmbedded[1]** | **DIGITAL** | Set the output X Audio to automatic mode.  0 -> invalid 1 -> open automatic mode |
| **SetInxAudioEmbedded[2]** |
| **SetInxAudioEmbedded[3]** |
| **SetInxAudioEmbedded[4]** |
|  |  |  |
| **SetInxAudioLR[1]** | **DIGITAL** | Set the output X Audio to external mode.  0 -> invalid 1 -> open external mode |
| **SetInxAudioLR[2]** |
| **SetInxAudioLR[3]** |
| **SetInxAudioLR[4]** |
|  |  |  |
| **SetOutType[1]** | **ANALOG** | Set output X video type: 1 -> UHD-HDMI 2 -> UHD-DVI  3 -> UHD-HDMI-1.4  4 -> UHD-HDMI-2.2 |
| **SetOutType[2]** |
| **SetOutType[3]** |
| **SetOutType[4]** |
|  |  |  |
|  |  |  |
| **SetOutputFormat[1]** | **ANALOG** | Output port X select output format:  01 -> 3840x2160p60 09 -> 1400x1050p60 02 -> 3840x2160p50 10 -> 1366x768p60 03 -> 3840x2160p30 11 -> 1360x768p60 04 -> 3840x2160p25 12 -> 1280x1024p60 05 -> 1920x1200p60 13 -> 1280x768p60  06 -> 1920x1080p60 14 -> 1280x720p50 07 -> 1920x1080p50 15 -> 1280x720p60 08 -> 1600x1200p60 16 -> 1024x768p60 |
| **SetOutputFormat[2]** |
| **SetOutputFormat[3]** |
| **SetOutputFormat[4]** |
|  |  |  |
| **SetTVWall** | **ANALOG** | Configure video wall mode: 1 -> 1X2(Horizontal) 2 -> 1X3(Horizontal) 3 -> 1X4(Horizontal) 4 -> 2X1 5 -> 3X1 6 -> 4X1 7 -> 2X2 |
| **CancelTVSplice** | **ANALOG** | Cancel output port X splicing mode: 1 -> Output 1 2 -> Output 2 3 -> Output 3 4 -> Output 4  5->All Output |
|  |  |  |
| **OutxMarginLeft[1]** | **ANALOG** | In splicing mode, adjust the size of the left margin of output port X:  Left -> 0(min)~100(max) |
| **OutxMarginLeft[2]** |
| **OutxMarginLeft[3]** |
| **OutxMarginLeft[4]** |
|  |  |  |
| **OutxMarginRight[1]** | **ANALOG** | In splicing mode, adjust the size of the right margin of output port X:  right -> 0(min)~100(max) |
| **OutxMarginRight[2]** |
| **OutxMarginRight[3]** |
| **OutxMarginRight[4]** |
|  |  |  |
| **OutxMarginTop[1]** | **ANALOG** | In splicing mode, adjust the size of the top margin of output port X:  Top -> 0(min)~100(max) |
| **OutxMarginTop[2]** |
| **OutxMarginTop[3]** |
| **OutxMarginTop[4]** |
|  |  |  |
| **OutxMarginBottom[1]** | **ANALOG** | In splicing mode, adjust the size of the bottom margin of output port X:  Bottom -> 0(min)~100(max) |
| **OutxMarginBottom[2]** |
| **OutxMarginBottom[3]** |
| **OutxMarginBottom[4]** |

# Output

**The module has the following commands that can be used as feedback output:**

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Explanation** |
| **Dev\_TX** | **STRING** | Equipment control command issuance |
|  |  |  |
| **FB\_AudioOnlyOpen** | **DIGITAL** | Independent audio playback mode feedback:  0 -> Invalid 1 -> support independent playback |
| **FB\_AudioOnlyClose** | **DIGITAL** | Independent audio playback mode feedback:  0 -> Invalid 1 -> No support independent playback |
|  |  |  |
| **FB\_AudioModeManual** | **DIGITAL** | Audio manual mode setting feedback:  0 -> Invalid 1 -> open manual mode |
| **FB\_AudioModeAuto** | **DIGITAL** | Audio auto mode setting feedback:  0 -> Invalid 1 -> open auto mode |
|  |  |  |
| **FB\_SetInxAudioEmbedded[1]** | **DIGITAL** | output X Audio automatic mode feedback:  0 -> invalid 1 -> open automatic mode |
| **FB\_SetInxAudioEmbedded[2]** |
| **FB\_SetInxAudioEmbedded[3]** |
| **FB\_SetInxAudioEmbedded[4]** |
|  |  |  |
| **FB\_SetInxAudioLR[1]** | **DIGITAL** | output X Audio external mode feedback:  0 -> invalid 1 -> open external mode |
| **FB\_SetInxAudioLR[2]** |
| **FB\_SetInxAudioLR[3]** |
| **FB\_SetInxAudioLR[4]** |
|  |  |  |
| **FB\_SetVideoRouting[1]** | **ANALOG** | Output port X to select the video input source feedback: 1 -> Input 1 2 -> Input 2 3 -> Input 3 4 -> Input 4 |
| **FB\_SetVideoRouting[2]** |
| **FB\_SetVideoRouting[3]** |
| **FB\_SetVideoRouting[4]** |
| **FB\_SetAudioRouting[1]** | **ANALOG** | Output port X to select the Audio input source feedback: 1 -> Input 1 2 -> Input 2 3 -> Input 3 4 -> Input 4 |
| **FB\_SetAudioRouting[2]** |
| **FB\_SetAudioRouting[3]** |
| **FB\_SetAudioRouting[4]** |
|  |  |  |
| **FB\_InxFormat[1]** | **STRING** | Input format feedback of input x chanel |
| **FB\_InxFormat[2]** |
| **FB\_InxFormat[3]** |
| **FB\_InxFormat[4]** |
|  |  |  |
| **FB\_OutxType[1]** | **ANALOG** | Set output X video type feedback: 1 -> UHD-HDMI 2 -> UHD-DVI  3 -> UHD-HDDMI-1.4  4 -> UHD-HDDMI-2.2 |
| **FB\_OutxType[1]** |
| **FB\_OutxType[1]** |
| **FB\_OutxType[1]** |
|  |  |  |
| **FB\_OutxFormat[1]** | **ANALOG** | Output port X select output format feedback：  01 -> 3840x2160p60 09 -> 1400x1050p60 02 -> 3840x2160p50 10 -> 1366x768p60 03 -> 3840x2160p30 11 -> 1360x768p60 04 -> 3840x2160p25 12 -> 1280x1024p60 05 -> 1920x1200p60 13 -> 1280x768p60  06 -> 1920x1080p60 14 -> 1280x720p50 07 -> 1920x1080p50 15 -> 1280x720p60 08 -> 1600x1200p60 16 -> 1024x768p60 |
| **FB\_OutxFormat[2]** |
| **FB\_OutxFormat[3]** |
| **FB\_OutxFormat[4]** |
|  |  |  |
| **FB\_SetTVWall** | **ANALOG** | Configure video wall mode feedback： 1 -> 1X2(Horizontal) 2 -> 1X3(Horizontal) 3 -> 1X4(Horizontal) 4 -> 2X1 5 -> 3X1 6 -> 4X1 7 -> 2X2 |
| **FB\_CancelTVSplice** | **ANALOG** | Cancel output port X splicing mode feedbcak: 1 -> Output 1 2 -> Output 2 3 -> Output 3 4 -> Output 4  5->All Output |
|  |  |  |
| **FB\_OutxMarginLeft[1]** | **ANALOG** | In splicing mode, feedback of the left margin of output port X  Left -> 0(min)~100(max) |
| **FB\_OutxMarginLeft[2]** |
| **FB\_OutxMarginLeft[3]** |
| **FB\_OutxMarginLeft[4]** |
|  |  |  |
| **FB\_OutxMarginRight[1]** | **ANALOG** | In splicing mode, feedback of the right margin of output port X  right -> 0(min)~100(max) |
| **FB\_OutxMarginRight[2]** |
| **FB\_OutxMarginRight[3]** |
| **FB\_OutxMarginRight[4]** |
|  |  |  |
| **FB\_OutxMarginTop[1]** | **ANALOG** | In splicing mode, feedback of the top margin of output port X  top -> 0(min)~100(max) |
| **FB\_OutxMarginTop[2]** |
| **FB\_OutxMarginTop[3]** |
| **FB\_OutxMarginTop[4]** |
|  |  |  |
| **FB\_OutxMarginBottom[1]** | **ANALOG** | In splicing mode, feedback of the bottom margin of output port X  bottom-> 0(min)~100(max) |
| **FB\_OutxMarginBottom[2]** |
| **FB\_OutxMarginBottom[3]** |
| **FB\_OutxMarginBottom[4]** |