



# **Evolution EVMX44VW**

**RTI Driver User Guide V1.0**

## Introduction

This driver has been designed to provide control of the Evolution by Vanco EVMX44VW 4K 4x4 Seamless Audio Video Matrix with Video Wall via RS-232 or TCP/IP.

## Installation

You need to copy all the files in the folder (EVMX44VW) to your project directory to support Integration Designer 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

## Driver Commands

The module has the following commands available as

input: ➤ **SystemStatusAcquisition category ●**

**GetSystemStatus**

**@Description:** This functional interface is used to obtain all the states of the matrix.

**@Parameter:** None ●

**GetTVWallStatus**

**@Description:** This function interface is used to separately obtain the matrix splicing status.

**@Parameter:** None ●

**GetInxFormatStatus**

**@Description:** This function interface is used to obtain the format of the matrix input signal separately.

**@Parameter:** None

- **GetOutxTypeStatus**

**@Description:** This function interface is used to separately obtain the type of matrix output signal.

**@Parameter:** None

- **GetOutxFormatStatus**

**@Description:** This function interface is used to obtain the format of the matrix output signal separately.

**@Parameter:** None

➤ **VideoRouting category ●**

**ViodeSwitchSet**

**@Description:** This function interface is used to switch the signal source of the matrix output port.

**@Parameter:**

**OutputPort:** Matrix output port.

**InputPort:** Matrix input port.

➤ **AudioRouting category ●**

**AudioOnlySet**

**@Description:** This function interface is used to set the independent audio playback mode of the matrix.

**@Parameter:**

**AudioOnlyMode:** Independent playback mode open/close.

- **AudioModeSet**

**@Description:** This function interface is used to set the audio mode of the matrix.

**@Parameter:**

**AudioMode:** Auto/Following the video. ●

**OutputAudioModeSet**

**@Description:** This function interface is used to set the audio mode of each output port of the matrix.

**@Parameter:**

**AudioPort:** Matrix output port.

**AudioMode:** Embedded Mode/LR mode.

- **AudioSwitchSet**

**@Description:** This function interface is used to switch the sound source of the matrix output port.

**@Parameter:**

**AudioPutput:** Matrix output port.

**AudioInput:** Matrix input port.

- **OutputSignalSet category**

- **SetOutputType**

**@Description:** This functional interface is used to switch the output format of the matrix output port, namely HDMI, DVI, HDMI1.4 or HDMI2.2.

**@Parameter:**

**OutputPort:** Matrix output port.

**SignalType:** Output type.

- **OutputFormatSet category**

- **FormatList1**

**@Description:** This functional interface is used to switch the output resolution of the matrix output port.

**@Parameter:**

**Index1:** Matrix output port. ●

- FormatList2**

**@Description:** This functional interface is used to switch the output resolution of the matrix output port.

**@Parameter:**

**Index2:** Matrix output port. ●

- FormatList3**

**@Description:** This functional interface is used to switch the output resolution of the matrix output port.

**@Parameter:**

**Index3:** Matrix output port. ●

## **FormatList4**

**@Description:** This functional interface is used to switch the output resolution of the matrix output port.

**@Parameter:**

**Index4:** Matrix output port.

## ➤ **TVWallSet category ●**

### **CancelTVWall**

**@Description:** This functional interface is used to exit the splicing mode of the output port.

**@Parameter:**

**Output:** Un-spliced output port.

### ● **SetTVWall**

**@Description:** This functional interface is used to create VideoWall mode.

**@Parameter:**

**Mode:** Splice Mode(VideoWall Mode). ●

### **TVMarginSet**

**@Description:** This function interface is used to set the margin of each TV in the TV wall mode.

**@Parameter:**

**Outpt:** Matrix output port..

**Direction:** TV edge direction.

**Level:** Margin size. ➤

## **Recall/Save Mode category**

### ● **RecallMode**

□ **@Description:** This function is used to restore the stored mode.

**@Parameter:**

**mode:** Model number .The range is 1 to 8.

### ● **SaveMode**

□ **@Description:** This function is used to save mode.

**@Parameter:**

**mode:** Model number. The range is 1 to 8.

## Variables

The module has the following variables that can be used as feedback output: ➤

### System Set variables

- **SystemStatus category**

**@Description:** It will become true when the corresponding variable value is currently selected, otherwise it will become false.

- **Output switching variables**

- **Output[X]SignalSelect category**

**@Description:** Output [X] the corresponding input value currently selected will be true, otherwise it will be false.

- **Audio Set variables**

- **AudioModeSelect**

**@Description:** When setting the audio mode of the corresponding port, the corresponding value is True, otherwise it is False.

- **Output[X]AudioSelect**

**@Description:** Output [X] will become true when the corresponding sound input currently selected, otherwise it will become false.

- **Input Signal type variables**

- **InputSignalFormat**

**@Description:** When the current input signal is in the corresponding signal format, the value of the signal will be output.

- **Output Signal Set variables ● OutputSignalFormat**

**@Description:** When the current output signal is set to the corresponding signal format, the value of the signal will be output. ● **Output[X]SignalType**

**@Description:** When the corresponding output format is currently selected, the output [X] will become true, otherwise it will become false.

- **TVWall Set variables**

- **Margin[X]Ajust**

### **Margin[X]**

**@Description:** Margin[X] When the matrix is in video wall mode, this function interface is used to switch, left, right, top and bottom margin values.

- **TVWallSet**

**@Description:** When the corresponding TV wall type is currently selected, the corresponding value is true, otherwise it is false.

- **Route Mode variables**

- **CurrentRouteMode**

□ **@Description:** The current mode. The range is 1 to 8.