AC-MX(44/88)-AUHD-HDBT Video Matrix
AC-MX42-AUHD Video Matrix
AC-MX62-AUHD Video Matrix
AC-MX82-AUHD Video Matrix
AC-MX88-AUHD-SM Video Matrix

Crestron Driver User Guide

Driver developed by

Introduction

This driver has been designed to provide control of the AVPro Edge AC-MX44-AUHD-HDBT /AC-MX88-AUHD-HDBT; the AVPro Edge AC-MX42-AUHD/AC-MX62-AUHD/AC-MX82-AUHD; and the AVPro Edge AC-MX88-AUHD-SM video matrix via RS232 or TCP/IP.

Installation

Add the module in to your Crestron Simpl Windows program and copy the following files to the location where your project is stored:

AC-MXxx _[*version*].ush
AC-MXxx _[*version*].usp
AC-MXxx _[*version*]sharp.clz
AC-MXxx _ip_[*version*].umc
AC-MXxx _serial_[*version*].umc

Note that the package includes a demonstration .smw file and an accompanying .vtp file. These are not required for integration, but can be used to test or confirm the compatibility of the module.

Note also that you need only add the .umc corresponding to the communication method you intend to use. If RS232 is your chosen communication method, use the following settings:

Baud rate: 57600
Data bits: 8
Parity: None
Stop bits: 1

Click **Tools** -> **Reload Device and Symbol Libraries from disk** and select the module from the **Symbol Library**.

Commands

Model	Inputs	Outputs
AC-MX44-AUHD-HDBT	4	4
AC-MX88-AUHD-HDBT	8	8
AC-MX42-AUHD	4	2
AC-MX62-AUHD	6	2
AC-MX82-AUHD	8	2
AC-MX88-AUHD-SM	8	8

The modules have the following commands available to input (depending on the model):

Name	Type	Explanation
		•
OUTPUT_[1-4or8]	ANALOG	Sets the input for the given output
Non AUHD-SM models		
EXAMX_MODE	ANALOG	Set Ex-Audio Matrix Mode • 0=Bind to Output • 1=Bind to Input 2=Matrix
AUDIO_OUTPUT_[1-4or8]	ANALOG	Sets the audio input for the given output
OUTPUT_VIDEO_[1-4or8]	ANALOG	Sets the video mode for the given output • 1 = BYPASS • 2 = 4K->2K • 3 = 2K->4K • 5 = ICT
AUDIO_ENABLE_[1-4or8] AUDIO_DISABLE_[1-4or8]	DIGITAL	Enables or disables audio for the given output
EX_AUDIO_ENABLE_[1-4or8] EX_AUDIO_DISABLE_[1-4or8]	DIGITAL	Enables or disables ex-audio for the given output. Note that the MX42/MX62/MX82 will only enable/disable both outputs at once, regardless of which EX_AUDIO_XXX signal you use.
AUDIO_DELAY_[1-4or8]	ANALOG	Sets the audio output delay for the given output (in milliseconds) • 0 = BYPASS • 1 = 90 • 2 = 180 • 3 = 270 • 4 = 360 • 5 = 450 • 6 = 540

			• 7 = 630
BIND_TO_OUTPUT_[1-2]	DIGITAL		Only available for the MX42/MX62/MX82 – specifies which output to bind the ex-audio output to
MX88-AUHD-SM models			
KEY_LOCK_ON/OFF	DIGITAL		Locks or unlocks the keys on front panel of device
OUTPUT_RESOLUTION[1-8]	ANALOG		Sets the output resolution. The demo program has digital signals for each of the different resolutions (0d-15d)

Feedback

The module has the following output:

Name	Type	Explanation
CONNECTION_STATE	DIGITAL	Output goes high when the device is connected
CONNECTION_STATUS	STRING	Shows the connection status of an IP connection
OUTPUT_[1-4or8]_FB	ANALOG	Indicates the currently selected source for the given output
OUTPUT_ AUDIO_[1-4or8]_FB	ANALOG	Indicates the currently selected audio source for the given output (not available on MX88-AUHD-SM module)

Parameters

The following parameters must be defined for the IP umc:

Name	Type	Explanation
IP_ADDRESS	STRING	If using an IP connection, the IP address of the matrix, example: 192.168.5.18
PORT	INTEGER	The IP port for the Telnet connection. The default is 23 unless you're using port forwarding
MODEL	LIST	The model you're using. Note that special instructions only exist for the MX42/MX62/MX82. For all other models, use Default (not available on MX88-AUHD-SM modules)