MX-xxxx-HDBT-H2X

Crestron Driver User Guide

Driver developed by

Introduction

This driver has been designed to provide control of the Wyrestorm MX-1010-HDBT-H2X and MX-1616-HDBT-H2X matrix switchers, 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:

Wyrestorm_H2X_[*version*].usp
Wyrestorm_H2X_[*version*].ush
Wyrestorm_H2X_[*version*]_CS.clz
Wyrestorm_H2X_Ethernet_[*version*].umc
Wyrestorm_H2X_Serial_[*version*].umc
J_Debug_v2.clz
J_MessageHandler_v5.clz
J_Networking_v5.clz
J_Timers_v2.clz

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**.

Inputs

The module has the following commands available to input:

Name	Type	Explanation
SET_VIDEO_[1-16]_INPUT	DIGITAL	Switch a video output to a given input
SET_VIDEO_ALL_INPUT	DIGITAL	Switch all video outputs to a given input
SET_AUDIO_[1-16]_INPUT	DIGITAL	Switch an audio output to a given input
SET_AUDIO_ALL_INPUT	DIGITAL	Switch all audio outputs to a given input
SET_CEC_PWR_HDMI_[1-16]_ON	DIGITAL	Send a CEC power on command to a specific HDMI video output
SET_CEC_PWR_HDBT_[1-16]_ON	DIGITAL	Send a CEC power on command to a specific HDBT video output
SET_CEC_PWR_ALL_ON	DIGITAL	Send a CEC power on command to all video outputs
SET_CEC_PWR_HDMI_[1-16]_OFF	DIGITAL	Send a CEC power off command to a specific HDMI video output
SET_CEC_PWR_HDBT_[1-16]_OFF	DIGITAL	Send a CEC power off command to a specific HDBT video output
SET_CEC_PWR_ALL_OFF	DIGITAL	Send a CEC power off command to all video outputs
SET_VOLUME_[1-16]	ANALOG	Set the volume level (0-100) for a specific output
SET_VOLUME_ALL	ANALOG	Set the volume level (0-100) for all outputs
SET_MUTE_SPDIF_[1-16]_ON	DIGITAL	Mute a specific SPDIF audio output
SET_MUTE_AUDIO_[1-16]_ON	DIGITAL	Mute a specific analogue audio output
SET_MUTE_AUDIO_ALL_ON	DIGITAL	Mute all audio outputs
SET_MUTE_SPDIF_[1-16]_OFF	DIGITAL	Unmute a specific SPDIF audio output

SET_MUTE_AUDIO_[1-16]_OFF	DIGITAL	Unmute a specific analogue audio output
SET_MUTE_AUDIO_ALL_OFF	DIGITAL	Unmute all audio outputs
SET_EQ_[1-16]_ON	DIGITAL	Enable EQ on a specific audio output
SET_EQ_ALL_ON	DIGITAL	Enable EQ on all audio outputs
SET_EQ_[1-16]_OFF	DIGITAL	Disable EQ on a specific audio output
SET_EQ_ALL_OFF	DIGITAL	Disable EQ on all audio outputs
SAVE_PRESET_[1-20]	DIGITAL	Save the current output configuration as a preset (1-20)
RECALL_PRESET_[1-20]	DIGITAL	Recall a preset configuration (1-20)

Feedback

The module has the following output:

Name	Type	Explanation
VIDEO_[1-16]_INPUT_FB	DIGITAL	Reports the input connected to a particular video output
AUDIO_[1-16]_INPUT_FB	DIGITAL	Reports the input connected to a particular audio output
CEC_PWR_HDMI_[1-16]_FB	DIGITAL	Reports the CEC power status of the display connected to a particular HDMI output
CEC_PWR_HDBT_[1-16]_FB	DIGITAL	Reports the CEC power status of the display connected to a particular HDMI output
VOLUME_[1-16]_FB	ANALOG	Reports the current volume level (0-100) of a particular output
MUTE_SPDIF_[1-16]_FB	DIGITAL	Reports the mute status of a particular SPDIF audio output
MUTE_AUDIO_[1-16]_FB	DIGITAL	Reports the mute status of a particular analogue audio output
EQ_[1-16]_FB	DIGITAL	Reports the EQ status of a particular audio output
CONNECTION_STATE	DIGITAL	Reports the current connection status
CONNECTION_STATUS	STRING	Reports the current connection status

Parameters

The IP module has the following parameters:

Name	Type	Explanation
ip_address	STRING	Enter the IP address of the matrix (the default IP address is “192.168.11.143”)
Port	STRING	Enter the port number used to communicate with the matrix (this will usually be “23”)