MONITOR AUDIO

IA200-2C

IA800-2C

IA150-8C

Audio Matrix

Crestron Driver User Guide

Driver developed by

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Introduction

This driver has been designed to provide control of the Monitor Audio IA200-2C, IA800-2C and IA150-8C audio matrices via TCP/IP. It has been tested with firmware version 1.12.

Installation

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

MonitorAudio_[*version*].ush
MonitorAudio_[*version*].usp
MonitorAudioSimplSharp_[*version*]sharp.clz
MonitorAudio_2C_[*version*].umc
MonitorAudio_8C_[*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.

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

Commands

The module has the following commands available to input:

Name	Type	Explanation
POWER_ON_DEVICE POWER_OFF_DEVICE POWER_TOGGLE_DEVICE	DIGITAL	Sets the device power on, off or toggle. Note that feedback only works for on/off and not for toggle.
POWER_ON_ZONE_X POWER_OFF_ZONE_X POWER_TOGGLE_ZONE_X	DIGITAL	Sets power on/off for a specific zone
VOLUME_UP_X VOLUME_DOWN_X	DIGITAL	When the signal goes high, starts volume ramping the volume up/down. When it goes low it stops. Note that the ramping will stop automatically after 10 seconds in case there is a network disconnect while the button is down.
VOLUME_UP3_X VOLUME_DOWN3_X	DIGITAL	As above, but in increments of 3db. Feedback is a percentage, but the actual range is -70 to 12db.
VOLUME_DEFAULT_X	DIGITAL	Sets the volume level to the default. This can be set in the device's web interface.
MUTE_ON_X MUTE_OFF_X MUTE_TOGGLE_X	DIGITAL	Sets the mute on, off or toggle.
SET_STEREO_X SET_MONO_X TOGGLE_STEREO_MONO_X	DIGITAL	Sets the zone as stereo, mono or toggle. Note there is no feedback available for this.
SOURCE_SELECT_X	ANALOG	Select a source for zone X
EQUALIZER_PRESET_X	ANALOG	Set the equalizer preset for zone X. This ranges from 0 to 49

Feedback

The module has the following output:

Name	Type	Explanation
CONNECTED	DIGITAL	Output goes high when the device is connected
BUSY	DIGITAL	Output goes high when data is actually being transferred over the network
DEVICE_POWER_STATE	DIGITAL	High when the device is turned on. Note that TOGGLE doesn't change this state, only ON and OFF
POWER_STATE_X	DIGITAL	The power state of the specified zone
VOLUME_LEVEL_X	ANALOG	The volume level as a percentage. The actual range is -70 to 12db
MUTE_STATE_X	DIGITAL	The mute state of the zone
SOURCE_STATE_X	ANALOG	The selected source for the zone
SHORT_ALARM_X	DIGITAL	An alarm indicating a short for a specific channel (not zone)
OVER_TEMP_ALARM_X	DIGITAL	An alarm indicating over temperature for a specific channel (not zone)
DSP_PRESET_CHANNEL_X	ANALOG	The currently selected preset for a specific channel (not zone)

Parameters

The following parameters must be defined for the UMC. Note that if you're using one of the 2C products you should use the 2C UMC and will only have two channels available.

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 TCP connection. The default is 52000 unless you're using port forwarding
CHANNEL_X_ZONE	INTEGER	A number specifying which channel each zone maps to. The channel numbers map to the front panel of the device as follows: 1 = 1L 2 = 1R 3 = 2L 4 = 2R 5 = 3L 6 = 3R 7 = 4L 8 = 4R