ADA Suite 8X8 Room Audio Control Module Application Guide

Description

This module is used to control the ADA Suite 8X8 audio switcher from a Crestron 2-series processor. This module provides room audio functionality on a room by room basis, using one module per room up to 8 rooms.

The room number to be controlled by each instance of the module is defined by the 'room number' parameter.

Supported Processors

Any 2-Series Crestron Processor

Communications Format

19,200 BPS
No Parity
8 Data Bits
1 Stop Bit
No hand shaking

Use a 'straight thru' cable for control.

DIGITAL INPUTS

room_off .... Pulse to turn off room only

[room_input_up...down]... Pulse to step thru inputs

[room_input_1...8].. Pulse to select the room audio input

[room_mute_toggle] .... Pulse to toggle mute on and off

[room_mute_on] .... Pulse to turn mute function on only

[room_mute_off] .... Pulse to turn mute function off only

[room_volume_up...down] .... Ramp room volume up or down

[room_volume_store_1...4] .... Pulse to store the current volume in the selected preset

[room_volume_recall_1...4]...................................... Pulse to recall the stored volume

[room_loudness_toggle] .... Pulse to toggle loudness on and off

[room_bass_up...down] .... Ramp room bass up or down

[room_bass_flat] .... Pulse to set room bass 'flat'

[room_treble_up...down]... Ramp room treble up or down

[room_treble_flat] .... Pulse to set room treble flat

[room_mono]... Pulse to mono sum the room audio

[room stereo] .... Pulse to set room audio to stereo

[room stereo mono toggle] .... pulse to toggle between stereo and mono modes

[stereo_enhance_toggle] .... Pulse to toggle the stereo enhance feature

[room_in_party_mode_1...4] .... Pulse to toggle the room's membership in a party mode on or off

[room_in_page_group 1...6&8] .... Pulse to toggle the room's membership in a page group on or off

[room on with recall 1] .... Hold signal high to turn on room to tone 1 preset

[input_from_global_module] .... Used to tie global module to room module for a single room page if global module is used

[all_rooms_off] .... Pulse to turn off all rooms in the system. You only need to pulse this input on a single room module if multiple room modules are being used This command is also included in the global module

[room_poll] .... Pulse to query room status

ANALOG INPUTS

This module does not have any analog inputs

SERIAL INPUTS

ada suite 8X8 rx$ .... Route to serial rx$ for Suite 8X8 COM port

DIGITAL OUTPUTS

[room_off_fb] .... Held high when room is off
[room_on_fb] .... Held high when room is on
[room_input_1…8_fb] .... Held high to indicate the selected source in the room
[room_mute_fb].. Held high when the room is muted
[room_loudness_on_fb]... Held high when loudness is on in the selected room
[room_bass_flat_fb] .... Held high when bass is set "flat"
[room_treble_flat_fb].. Held high when treble is set "flat"
[room_balance_center_fb] .... Held high when balance is set to center
[room_mono_fb] .... Held high when room audio is mono summed
[room_stereo_fb] .... Held high when room audio is stereo
[stereo_enhance_on_fb]... Held high when room is set to stereo enhance
[room_party_mode_fb_1…4_fb] .... Indicates room is a member of a specified party mode
[room_on_recall_1_fb]... Held high when room is set to turn on to tone preset 1
[room_on_last_used_fb]... Held high when room is set to turn on to the last tone
[room_in_page_group_1…6&8_fb] .... Held high to indicate that room is a member of the
respective page group(s)

ANALOG OUTPUTS

[room_volume] .... Current room volume (full range, 0-100%)
[room_volume_pre_1…4]... Stored preset volume level (full range, 0-100%)

SERIAL OUTPUTS

ada_suite_8X8_tx$ .... Route to serial tx$ for suite 8X8 COM port
room_vol$... Route to serial text field for room volume
room_volume_pre1$,,,4$... Route to serial text field for stored volume
room_bass$.. Route to serial text field for bass level
room_treble$ .... Route to serial text field for treble level
room_balance$ .... Route to serial text field for balance level

PARAMETERS

room number .... Enter the room number to control. Use two digit
number with no suffix. For example, Room 1 would be
entered as 01 and room 8 would be entered as 08.
room page volume.. Enter the room page volume. Use two digit
number between 00 and 40 with no suffix
room max volume.. Enter the rooms maximum volume level.
Use two digit number between 01 and
40 with no suffix.

Contents

The distribution package for this module should include:

Revision History

V1 lee@controlworks.com
   Internal Version

V2 lee@controlworks.com 2007.06.29
   First release

Development Environment

Version 2 of this module was developed on the following hardware and software. Different versions of hardware or software may or may not operate properly. If you have questions, please contact us.

Hardware
Crestron PRO2 Processor v3.155.1143

Software
Crestron SIMPL Windows .... Version 2.07.36
Crestron Vision Tools Pro-e .... Version 3.5.0.7
Crestron Database .... Version 18.1.14
Crestron Symbol Library .... Version 396
Crestron Device Library .... Version 396

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Software License Agreement

Definition
Software refers to all files provided as a part of a project for use with Crestron hardware including, but not limited to: all network devices, CNX generation platforms, 2-series platforms, Ethernet devices and the Crestron line of wired and wireless Touchpanels, as well as any future hardware that may support the use of these files.

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