



ADA Suite 16 Room Audio Control Module Application Guide v2

Description

This module is used to control the ADA Suite 16 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 96 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...16.....	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].....	Hold signal high to mono sum the room audio
[stereo_enhance_toggle]	Pulse to toggle the stereo enhance feature
[room_on_with_tone_preset_1].....	Hold high to turn on room to preset level
[room_in_party_mode_1...8]	Pulse to toggle the room's membership in a party mode on or off
[room_in_page_group 1...8]	Pulse to toggle the room's membership in a page group on or off
[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 16 rx\$	route to serial room\$[xx] output of the ADA
.....	Bus Control RX v2 SIMPL+ module.

DIGITAL OUTPUTS

[room_off_fb]	Held high when room is off
[room_on_fb]	Held high when room is on
[room_input_1...16_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_on_with_tone_preset_1_fb]	signal hi when room is set to on with tone preset
[room_party_mode_fb_1...8_fb]	indicates room is a member of a specified party mode
[room_in_page_group_1...8_fb].....	Held high to indicate that room is a member of the respective page group(s)
[all_rooms_off_fb]	High when all rooms in the system are off.

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_16_tx\$	Route to serial tx\$ for suite 16 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 22 would be entered as 22.
room page volume.....	enter the room page volume. Use two digit number between 00 and 80 with no suffix
room max volume.....	enter the rooms maximum volume level. Use two digit number between 01 and 80 with no suffix.

Contents

The distribution package for this module should include:

ADA_Suite_16_Audio_v2_help_v2.pdf	this help file
ADA_Suite_16_Audio_v2.umc	Crestron user module to insert in program
ADA_Bus_Control_RX_v2.usp	Crestron SIMPL+ module
ADA_Bus_Control_RX_v2.ush	Crestron SIMPL+ module (compiled)
ADA_Suite_16_Audio_Demo_XPANEL_v2.vtp.....	example XPANEL (800x600)
ADA_Suite_16_Audio_Demo_TPS4500_v2.vtp	example TPS-4500 (800x600)
ADA_Suite_16_Audio_Demo_Program_v2.smw.....	example program (PRO2)

Revision History

v1 lee@controlworks.com 2006.07.26

First release

V2 lee@controlworks.com 2006.11.08

Removed SIMPL+ string handling internal to the module and replace with SIMPL

Removed polling of all room status on each digital press

Added ADA Bus Control SIMPL+ to route the room feedback to the proper room module

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 2.07.32

Crestron Vision Tools Pro-e Version 3.5.0.7

Crestron Database Version 18.1.5

Crestron Symbol Library Version 387

Crestron Device Library Version 387

ControlWorks Consulting, LLC 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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