

Manufacturer: Renkus Heinz
Model: Dante Enabled Loudspeakers
Device Type: Loudspeakers



GENERAL INFORMATION

SIMPLWINDOWS NAME:	Renkus Heinz Dante Enabled Loudspeakers Command Processor v1.0
CATEGORY:	Loudspeakers
VERSION:	1.0
SUMMARY:	This module controls a Renkus Heinz Dante Enabled Loudspeaker with a UDP transport.
GENERAL NOTES:	The integrator is required to setup any slaves to be used in conjunction with the master device as needed. This module is the core UDP communication module for a suite of modules. The suite utilizes the SIMPL# technology and will only work on the 4- Series Controllers. Up to 10 instances of this module can be used in a single program slot. The module has a parameter that allows you to choose one of the 10 instance IDs. Each instance ID can only be used once. Once the processing module has determined that it is communicating with the device, it will begin initialization. Once it receives all the responses it is looking for, initialization will be complete. The Is_Initialized output on the processing module will go high; At this point, you will have full control for this module. <i>Keep in mind the modules, during the initialization process, will get the current state of each of your control points, so you do not need to duplicate this effort. Also, you should wait for any and all processing modules to set "Is_Initialized" to high before attempting to control the device. This is your indication that the device programming is correct and ready to go</i>
CRESTRON HARDWARE REQUIRED:	4 Series Control Processors
VENDOR FIRMWARE:	4.0.62

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CONTROL:

Connect	D	The processing module will attempt to connect to the device on the rising edge of this signal.
Disconnect	D	The processing module will disconnect from the device on the rising edge of this signal.
Debug	D	Set this input high to allow internal trace messages to be printed in SIMPL Debugger. This is useful for debugging the processes going on inside the compiled SIMPL# code.
Power_On	D	Sets the power to on
Power_Off	D	Sets the power to off
Mute_On	D	Sets the amp mute state to on
Mute_Off	D	Sets the amp mute state to off
Mute_Toggle	D	Toggles the amp mute state
Input_Selection	A	Set the current input. *[1 - Analog 1, 2- Analog 2, 3- Cobranet 1, 4- Cobranet 2, 5-AES 1, 6-AES 2]
Gain_Level	A	Set the gain level. (Range is 0d to 65535d)
Gain_Level_Send	D	Trigger to sends the value of "Gain_Level" to the device
Audio_Delay	A	Set the audio delay (Range is 0d to 65535d)
Audio_Delay_Send	A	Trigger to sends the value of "Audio_Delay" to the device.
Preset_Number	A	Set the target preset used with the following signals: Preset_Store, Preset_Recall, Preset_Delete. (Available Presets: 1-9)
Preset_Store	D	Set to store the current system state as a Preset. Uses the Signal: Preset_Number to determine the target preset.
Preset_Recall	D	Set to recall a system preset. Uses the Signal: Preset_Number to determine the target preset.
Preset_Delete	D	Set to delete a system preset. Uses the Signal: Preset_Number to determine the target preset.

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FEEDBACK:

Is_Communicating	D	Set to high when the processing module has successfully established communication with the device and is receiving appropriate responses.
Is_Initialized	D	Set to high when all registered control modules have successfully indicated that they have received the required responses to all their queries.
Mute_On_Fb	D	Indicates the current mute state as on.
Mute_Off_Fb	D	Indicates the current mute state as off.
Gain_Level_Fb	A	Indicates the current gain level.
Audio_Delay_Fb	A	Indicates the current audio delay.
Last_Preset_Recalled_Fb	A	Indicates the last preset recalled.
MAC_Fb	S	Indicates the MAC address for the master device.
MCU_FW_Version_Fb	D	Indicates the micro version for the master device.
Serial_Number_Fb	S	Indicates the Serial number for the master device.
Amp_Error_Fb	D	Indicates a D2 Audio Error.
Power_Supply_Temp_Status_Fb	D	Indicates the master power supply temp is high
Positive3_3V_Bad_Fb	D	Indicates a 3.3V issue.
Negative_12V_Bad_Fb	D	Indicates a -12V issue.
Positive1_8V_Bad_Fb	D	Indicates a 1.8V issue.
Positive12V_Bad_Fb	D	Indicates a 12V issue.
Positive5V_Bad_Fb	D	Indicates a 5V issue.

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**PARAMETERS:**

Command_Processor_ID	A	Setting to indicate the ID for a particular processing module. Up to 10 separate processing modules may be used in a single program, each one operating independently. Note that if multiple processing modules are to be used in a single program, they <u>must</u> each have different ID's set.
IPAddress	S	Setting to indicate the IP address of the device.

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**TESTING:**

OPS USED FOR TESTING:	CP4 2.8003.00056
SIMPL WINDOWS USED FOR TESTING:	4.3
CRES DB USED FOR TESTING:	226.0500.003.00
DEVICE DATABASE:	200.36000.001.00
SYMBOL LIBRARY USED FOR TESTING:	1207
SAMPLE PROGRAM:	Renkus Heinz Iconyx v1.0 Demo
REVISION HISTORY:	v1.0 – Initial Release