



Manufacturer: Renkus-Heinz  
 Model: Dante-enabled loudspeaker  
 Device Type: Amplifier

### CONTACT SUPPORT:

COMPANY NAME:	Renkus-Heinz
SUPPORT CONTACT:	Technical Support
EMAIL ADDRESS:	rh-tech@renkus-heinz.com
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NOTES:	N/A

### GENERAL INFORMATION

SIMPLWINDOWS NAME:	Renkus-Heinz Dante loudspeaker v1.2
CATEGORY:	Amplifier
VERSION:	1.2
SUMMARY:	This module will provide control of Renkus-Heinz Dante-enabled loudspeakers via Ethernet
GENERAL NOTES:	<p>This module will provide control of Renkus-Heinz Dante-enabled loudspeakers via Ethernet. User can turn the loudspeaker on or switch to standby state, mute/unmute, set the volume and load presets from 0 (factory preset) to 9. The initial setup of the loudspeakers including saving the presets is done via RHAON software provided by Renkus-Heinz (<a href="http://www.renkus-heinz.com/software">http://www.renkus-heinz.com/software</a>).</p> <p>The feedback is provided for the power state, mute state, volume value and mutually exclusive indication if preset 0-9 is currently loaded. Also feedback includes the Device_is_Busy signal indicating that loudspeaker firmware is performing a critical operation and cannot process any additional commands at this time. The Device_is_Busy signal will stay high for 2 seconds when loudspeaker is going to standby, for 20 seconds when powering up and approximately for 5 seconds when loading a preset. The Device_is_Busy signal can be used to disable the GUI controls temporarily while it's high and enable them when the signal is low to prevent user from operating the panel controls at this time.</p> <p>This module was tested using one Iconyx IC8-RD and one ICL-F-RD Dual.</p>
CRESTRON HARDWARE REQUIRED:	3-series controller

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<b>SETUP OF CRESTRON HARDWARE:</b>	IP address in the same subnet as the loudspeaker. Don't use link-local 169.254.*.* address.
<b>VENDOR FIRMWARE:</b>	v1.00.97
<b>VENDOR SETUP:</b>	IP address in the same subnet as the Crestron controller. Don't use link-local 169.254.*.* address.
<b>CABLE DIAGRAM:</b>	TCP-IP RJ45

### CONTROL:

<u>Signal/Function Name</u>	<u>D,S,A</u>	<u>Digital, Serial, Analog signal property definition.</u>
<b>Power_Toggle</b>	D	Press to toggle power On or Standby.
<b>Mute_Toggle</b>	D	Press to toggle mute On or Off.
<b>Volume_&lt;Up/Down&gt;</b>	D	Press to increase or decrease volume.
<b>Volume_Slider_Change</b>	D	Use slider to change volume
<b>Volume_In</b>	A	Use to set the volume value (0d to 100d) to be converted by the module to the correct gain value and then to be sent to the loudspeaker.
<b>Volume_Text_In</b>	S	Use to set the volume dB string value, ex. -35.5
<b>Preset_&lt;0/1/2/3/4/5/6/7/8/9&gt;_On</b>	D	Press to load preset 0-9.

### FEEDBACK:

<b>Power_is_On</b>	D	Indicates the current power state.
<b>Mute_is_On</b>	D	Indicates the current mute state.
<b>Volume_Gauge</b>	A	Indicates the current volume. For a gauge object on touchpanel.



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Volume_Text	S	Indicates the current volume in dB.
Preset_<0/1/2/3/4/5/6/7/8/9>_is_On	D	Indicates the current loaded preset.
Device_is_Busy	D	Indicates the loudspeaker is busy executing an operation like switching the power state or loading a preset.

**PARAMETERS:**

IP_Address	S	IP address of the loudspeaker in the *.*.* format, ex. 192.168.0.3
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**TESTING:**

OPS USED FOR TESTING:	RMC3-Module-OS 1.501.2867.30341
SIMPL WINDOWS USED FOR TESTING:	4.15
DEVICE DB USED FOR TESTING:	200.70
CRES DB USED FOR TESTING:	204.05
SYMBOL LIBRARY USED FOR TESTING:	1138
SAMPLE PROGRAM:	Renkus-Heinz Dante loudspeaker v1.2 Demo RMC3
REVISION HISTORY:	v1.0, v1.1, v1.2