Partner: Nureva
Models: HDL310, HDL410, HDL200
Device Type: Audio Conferencing System

GENERAL INFORMATION

SIMPLWINDOWS NAME:	NurevaHDL v1.0 Local Comm
CATEGORY:	Misc.
VERSION:	2.0.0
SUMMARY:	This module provides control and feedback for a Nureva HDL310, HDL410, and HDL200 Audio. Conferencing System using a local area network connection (LAN) instead of the Nureva Cloud Service.
GENERAL NOTES:	**Supported Models:** [HDL200, HDL3x0, HDL410] This module connects over IP to a Nureva HDL310, HDL410, and HDL200 Audio Conferencing System. These are the only models that support the Nureva Local API this module uses for communication. Multiple module instances can be added to support multiple devices, one module for each device. **Child Module [Nureva Sound Tracking v2.0]:** Nureva Sound Tracking v1.0 links to this module to provide soundtracking data. It is only supported by the following models: [HDL3x0, HDL410]. **Volume Set Control**IMPORTANT CONTROL NOTE**:** Nureva products do not contain a true volume set, there is only protocol for increment and decrement. This control sends multiple increment/decrement requests to get the target value. Because this is sending multiple requests, it is not instance and is slow. Use for convenience only. More information about the Nureva Local API can be found by following this link: https://developers-local.nureva.com/docs/local-api-overview **Module Support Contact:** Nureva Support support@nureva.com (844) 370-2111
CRESTRON HARDWARE REQUIRED:	Crestron 3-Series or 4-Series processor.
SETUP OF CRESTRON HARDWARE:	N/A
VENDOR FIRMWARE:	N/A
VENDOR SETUP:	N/A

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PARAMETERS:

IP_Address	The TCP network address of the physical device to connect to.

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CONTROL:

Connect	D	Pulse to establish communication with the physical device and start initialization of the module.
Disconnect	D	Pulse to terminate communication with the physical device.
Reinitialize	D	Pulse to cause the module to disconnect from the physical device, clear its existing status information, and reconnect to refresh the device status.
Enable_Debug	D	Pulse to toggle the internal trace messages printed in SIMPL Debugger. These messages may be useful while debugging to see what processes are occurring within the module. Note it is highly recommended to leave debugging disabled unless actively debugging as it causes much additional signal traffic in Debugger.
IP_Address	S	Specifies the IP address applied during runtime of the control program. This value overrides the default IP address specified in the module property at design time. Changing the IP address causes the module to reinitialize.
Volume_Up	D	Pulse to incrementally increase the speaker volume level.
Volume_Down	D	Pulse to incrementally decrease the speaker volume level.
Treble_Up	D	Pulse to incrementally increase the treble level.
Treble_Down	D	Pulse to incrementally decrease the treble level.
Set_Treble_Level	D	Pulse to set the treble specified by the **Treble_Level** analog input.
Treble_Level	A	Integer value specifies the treble level to set as a scaled percentage. Range is 0 to 65535. Set the value to the device by pulsing the **Set_Treble_Level** digital input.
Bass_Up	D	Pulse to incrementally increase the bass level.
Bass_Down	D	Pulse to incrementally decrease the bass level.
Set_Bass_Level	D	Pulse to set the bass specified by the **Bass_Level** analog input.
Bass_Level	A	Integer value specifies the bass level to set as a scaled percentage. Range is 0 to 65535. Set the value to the device by pulsing the **Set_Bass_Level** digital input.
Microphone_Mute	D	Pulse to mute the audio system microphone.
Microphone_Unmute	D	Pulse to unmute the audio system microphone.
Microphone_Mute_Toggle	S	Pulse to toggle the microphone mute state between muted and unmuted.
Calibrate	D	Pulse to run the audio system calibration routine.

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FEEDBACK:

Is_Communicating	D	Digital high indicates that the module is successfully communicating with the device, or not communicating with the device when the signal is low.
Is_Initialized	D	Digital high indicates the module has synchronized device state and completed initialization, or not synchronized device state when the signal is low.
Debug_Enabled	D	Digital high indicates the module is in debug mode, or not in debug mode when the signal is low. While in debug mode, the module will print verbose debug information to SIMPL Debugger.
Current_Treble_Level	A	Integer value indicates the current treble level reported by the device as a scaled percentage. Range is 0 to 65535.
Current_Bass_Level	A	Integer value indicates the current bass level reported by the device as a scaled percentage. Range is 0 to 65535.
Microphone_Is_Muted	D	Digital high indicates the audio system microphone is muted, or not muted when the signal is low.
Microphone_Is_Unmuted	D	Digital high indicates the audio system microphone is unmuted, or not unmuted when the signal is low.

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TESTING:

OPS USED FOR TESTING:	CP3 v1.8001.5061.26823 MC4 v2.8000.00017
SIMPL WINDOWS USED FOR TESTING:	4.2500.04
CRES DB USED FOR TESTING:	220.0500.001.00
DEVICE DATABASE:	200.29000.002.00
SYMBOL LIBRARY USED FOR TESTING:	1193
SAMPLE PROGRAM:	Nureva HDL v2.0 Local Comm IP CP3.smw
REVISION HISTORY:	v1.0 – Initial Release v2.0 – Added Calibration

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