Partner: Nureva
Models: HDL200, HDL300, Dual HDL300, HDL310, HDL410
Device Type: Audio Conferencing System

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GENERAL INFORMATION

SIMPLWINDOWS NAME:	NurevaHDL v1.1 Device
CATEGORY:	Misc.
VERSION:	1.0.0
SUMMARY:	This module works in conjunction with the NurevaHDL v1.1 Comm IP module to control one audio conferencing system through Nureva Cloud services.
GENERAL NOTES:	This module requires one instance of the NurevaHDL v1.1 Comm IP module. Set the Command_Processor_ID parameter field of this module to match the command processor ID specified on the comm module to register this module with the comm module. The device ID parameter field must match the ID of the device registered with the online account that this module will monitor and control.
	This module supports models HDL200, HDL300, Dual HDL300, HDL310 and HDL410. However, only the HDL300 and Dual HDL300 models support Active Zone Control and Active Zone Type features. Use the "Is_Supported" digital output signals to determine if the audio system the module is connected to has these features. If the "Is_Supported" digital output signals remain low, the Active Zone Control and Active Zone Type features should not be made available to the user.
	Prerequisites:
	All Nureva devices must be enrolled within a Nureva Console account to enable module support. Additional details available at: https://developers.nureva.com/docs/get-started.
	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:

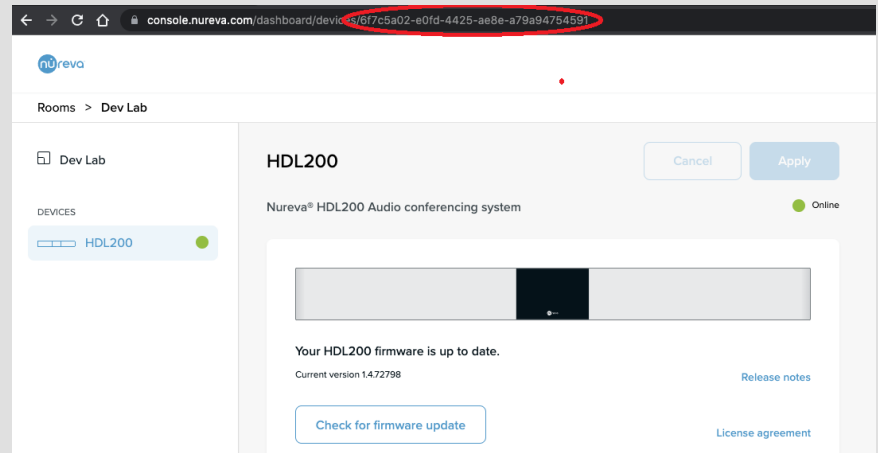| Command_Processor_ID	The unique identifier of the NurevaHDL Comm IP module that this module registers with.
Device_ID	The device ID of the audio system defined in the online account the audio system is enrolled in. To obtain the device ID, log in to the Nureva Console in a browser, navigate to the audio system settings page, then copy the device ID from the audio system URL in the browser URL field and paste it into the device ID field of the module. Example:

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CONTROL:

Volume_Up	D	Pulse to incrementally increase the volume level.
Volume_Down	D	Pulse to incrementally decrease the 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 percentage. Range is 0 to 65535. Set the value to the module 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 percentage. Range is 0 to 65535. Set the value to the module 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.
ActiveZone_Control_Enable	D	Pulse to enable active zone control.
ActiveZone_Control_Disable	D	Pulse to disable active zone control.
ActiveZone_Control_Toggle	D	Pulse to toggle the active zone control state between enabled and disabled.
ActiveZone_Type_Full	D	Pulse to set the active zone type to full mode.
ActiveZone_Type_Partial	D	Pulse to set the active zone type to partial mode.
ActiveZone_Type_Toggle	D	Pulse to toggle the active zone type mode between full and partial.
Calibrate	D	Pulse to run the audio system calibration routine.

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FEEDBACK:

Is_Active	D	Digital high indicates the device ID of the module matches a found physical device registered with the online account, or no matching physical device was found for the module ID when the signal is low. Control of the physical device through the module is only possible when this signal is high. If this signal does not go high during program startup, check the device ID of the module with registered devices in the online account to verify there is a match.
Is_Initialized	D	Digital high indicates the device status is synchronized with the module, or not synchronized when the signal is low.
Is_Online	D	Digital high indicates the physical device is reporting online, or not online when the signal is low.
System_Type	S	Text value indicates the type of audio system of the physical device.
Firmware_Version	S	Text value indicates the firmware version reported by the audio system.
Current_Treble_Level	A	Integer value indicates the treble level reported by the audio system as a percentage. Range is 0 to 65535.
Current_Bass_Level	A	Integer value indicates the bass level reported by the audio system as a 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.
ActiveZone_Control_Is_Supported	D	Digital high indicates the audio system supports active zone control features, or does not support active zone control features when the signal is low. This signal can be used to enable/disable user controls for active zone control features. The HDL200 device model does not support active zone control.
ActiveZone_Control_Is_Enabled	D	Digital high indicates the audio system active zone control is enabled, or not enabled when the signal is low.
ActiveZone_Control_Is_Disabled	D	Digital high indicates the audio system active zone control is disabled, or not disabled when the signal is low.
ActiveZone_Type_Is_Supported	D	Digital high indicates the audio system supports active zone type features, or does not support active zone type features when the signal is low. This signal can be used to enable/disable user controls for active zone type features. The HDL200 device model does not support active zone type.
ActiveZone_Type_Is_Full	D	Digital high indicates the audio system active zone type mode is full, or not full when the signal is low.
ActiveZone_Type_Is_Partial	D	Digital high indicates the audio system active zone type mode is partial, or not partial 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:	4.2200.00
CRES DB USED FOR TESTING:	218.00
DEVICE DATABASE:	200.265
SYMBOL LIBRARY USED FOR TESTING:	1246
SAMPLE PROGRAM:	NurevaHDL v1.1 Demo IP CP3.smw
REVISION HISTORY:	v1.0 – Initial Release v1.1 – Validated control of HDL310 and HDL410

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