

Manufacturer: Clock Audio**Model: C303D****Device Type: 1-Channel Dante Microphone Aggregator****GENERAL INFORMATION**

SIMPLWINDOWS NAME:	Clock Audio C303D v3.1
SUMMARY:	This module provides control and feedback of the Clock Audio C303D via UDP. It also provides true feedback.
GENERAL NOTES:	<ul style="list-style-type: none">• The module utilizes a “Heartbeat” to maintain communication with the device. This heartbeat will begin once preliminary initialization is complete. Should a heartbeat response not be received, the module will attempt to send the heartbeat two more times in succession. If neither of these responses is received, the module will consider communication with the device to be broken, will clear all existing data and output signals, and will attempt to re-establish communication with the device every 10 seconds. Once communication has been re-establish, the module will automatically re-initialize.• The module will automatically subscribe for available unsolicited feedback with the device upon initialization.
CRESTRON HARDWARE REQUIRED:	3-Series Compatible only
SETUP OF CRESTRON HARDWARE:	Connect Crestron 3-series processor via Ethernet port to same network that the device is on. Configure IP address of both Crestron processor and the device (ensure subnet settings match).
VENDOR FIRMWARE:	2.0.0
OPS USED FOR TESTING:	CP3 (1.502.3149.32856)
SAMPLE PROGRAM:	Clock Audio C303D v3.1 Demo IP.smw

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PARAMETERS

IP_Address	P	Parameter to be entered reflecting the IP Address of the device which the module will be communicating with.
IP_Port	P	Parameter to be entered reflecting the remote port on the device to be used for UDP communication (Default as of this writing is 49494).
Adapter_Type	P	Parameter to be selected reflecting the Ethernet Adapter Type to be used. In most cases, adapter type should remain at the default (LAN). However, if using a processor with dual NIC cards (such as a CP3N) or controlling via the control subnet, it may be necessary to change the adapter type.

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CONTROL		
Reinitialize	D	Pulse to initialize communication with the device. The initialization process will poll the device for its current state. Once all the expected data is returned by the device, the module will be considered "initialized" and will operate normally. Module will automatically attempt to initialize when program starts up.
Enable_Debug	D	Set high to enable internal SIMPL# messages to be printed in Debugger. Set low to disable.
Enable_Passback	D	Set high to allow for sending all received responses from the device out of the Passback_Text serial signal. This can be useful for expanding the capabilities of your system beyond what the module directly supports.
Passthrough_Text	S	This signal allows for sending commands directly to the device. Commands sent on this signal will be queued automatically within the module and will append all necessary command delimiters. This signal can be useful for expanding the capabilities of your system beyond what the module directly supports.
LED_R_On	D	Pulse to turn on the Red LED channel.
LED_R_Off	D	Pulse to turn off the Red LED channel.
LED_R_Toggle	D	Pulse to toggle the state of the Red LED channel.
LED_G_On	D	Pulse to turn on the Green LED channel.
LED_G_Off	D	Pulse to turn off the Green LED channel.
LED_G_Toggle	D	Pulse to toggle the state of the Green LED channel.
LED_B_On	D	Pulse to turn on the Blue LED channel.
LED_B_Off	D	Pulse to turn off the Blue LED channel.
LED_B_Toggle	D	Pulse to toggle the state of the Blue LED channel.
LED_R_Bright_Set	A	Set brightness level on the Red LED channel. Valid values: 0 - 65535
LED_G_Bright_Set	A	Set brightness level on the Green LED channel. Valid values: 0 - 65535
LED_B_Bright_Set	A	Set brightness level on the Blue LED channel. Valid values: 0 - 65535

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Is_Communicating	D	High to indicate the module is communicating with the device.
Is_Initialized	D	High to indicate the module is initialized and that data has been synchronized between the module and the device.
Debug_Enabled	D	High to indicate that debugging has been enabled and internal SIMPL# messages will be printed in Debugger.
Passback_Enabled	D	High to indicate that passback has been enabled and the module will send all received responses from the device out of the Passback_Text serial signal
Passback_Text	S	If Passback_Enabled is high, all responses from the device will be returned on this serial signal.
IP_Address	S	Value reflecting the IP Address of the device.
LED_R_Is_On	D	High to indicate the Red LED is on.
LED_G_Is_On	D	High to indicate the Green LED is on.
LED_B_Is_On	D	High to indicate the Blue LED is on.
LED_R_Bright_Level	A	Value indicating the current brightness level of the Red LED. Valid values: 0 - 65535
LED_G_Bright_Level	A	Value indicating the current brightness level of the Green LED. Valid values: 0 - 65535
LED_B_Bright_Level	A	Value indicating the current brightness level of the Blue LED. Valid values: 0 - 65535