

**Manufacturer: Clock Audio**  
**Model: CDT100 mkI**  
**Device Type: 4-Channel Dante Microphone Aggregator**

## GENERAL INFORMATION

<b>SIMPLWINDOWS NAME:</b>	Clock Audio CDT100 mkl v3.1
<b>SUMMARY:</b>	This module provides control and feedback of the Clock Audio CDT100 mkI via UDP. It also provides true feedback.
<b>GENERAL NOTES:</b>	<ul style="list-style-type: none"><li>• 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.</li><li>• The module will automatically subscribe for available unsolicited feedback with the device upon initialization.</li></ul>
<b>CRESTRON HARDWARE REQUIRED:</b>	3-Series Compatible only
<b>SETUP OF CRESTRON HARDWARE:</b>	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).
<b>VENDOR FIRMWARE:</b>	2.0.0
<b>OPS USED FOR TESTING:</b>	CP3 (1.502.3149.32856)
<b>SAMPLE PROGRAM:</b>	Clock Audio CDT100 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		
<b>Reinitialize</b>	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.
<b>Enable_Debug</b>	D	Set high to enable internal SIMPL# messages to be printed in Debugger. Set low to disable.
<b>Enable_Latching_Mics</b>	D	Set high if using latched microphones (i.e. motorized mics that raise/lower via motor) which will enable periodic polling for button/motor state. Note, if not using latched microphones, this signal should be set low to avoid incorrect button feedback.
<b>Enable_Passback</b>	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.
<b>Passthrough_Text</b>	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.
<b>Arm_C_Mic_Up</b>	D	Pulse to set the Arm-C Microphone to the Up position.
<b>Arm_C_Mic_Down</b>	D	Pulse to set the Arm-C Microphone to the Down position.
<b>Arm_C_Mic_Toggle</b>	D	Pulse to toggle the position of the Arm-C Microphone.
<b>Phantom_On_Ch[x]</b>	D	Pulse to turn on a single Phantom Power channel.
<b>Phantom_Off_Ch[x]</b>	D	Pulse to turn off a single Phantom Power channel.
<b>Phantom_Toggle_Ch[x]</b>	D	Pulse to toggle the state of a single Phantom Power channel.
<b>Phantom_All_Off</b>	D	Pulse to turn off all Phantom Power channels.
<b>Phantom_All_On</b>	D	Pulse to turn on all Phantom Power channels.
<b>Preset_Save</b>	D	Pulse to save the current phantom power, ARM-C, LED state and LED brightness values. Note: as of this writing, preset 0 is the only preset available.
<b>Preset_Load</b>	D	Pulse to load the values that have been saved. Note: as of this writing, preset 0 is the only preset available.

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LED_R_On_Ch[x]	D	Pulse to turn on a single Red LED channel.
LED_R_Off_Ch[x]	D	Pulse to turn off a single Red LED channel.
LED_R_Toggle_Ch[x]	D	Pulse to toggle the state of a single Red LED channel.
LED_R_All_Off	D	Pulse to turn off all Red LED channels.
LED_R_All_On	D	Pulse to turn on all Red LED channels.
LED_G_On_Ch[x]	D	Pulse to turn on a single Green LED channel.
LED_G_Off_Ch[x]	D	Pulse to turn off a single Green LED channel.
LED_G_Toggle_Ch[x]	D	Pulse to toggle the state of a single Green LED channel.
LED_G_All_Off	D	Pulse to turn off all Green LED channels.
LED_G_All_On	D	Pulse to turn on all Green LED channels.
LED_R_Bright_Set_Ch[x]	A	Set brightness level on a single Red LED channel. Valid values: 0 - 65535
LED_R_All_Bright_Set	A	Set brightness level on all Red LED channels. Valid values: 0 - 65535
LED_G_Bright_Set_Ch[x]	A	Set brightness level on a single Green LED channel. Valid values: 0 - 65535
LED_G_All_Bright_Set	A	Set brightness level on all Green LED channels. Valid values: 0 - 65535

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**FEEDBACK**

<b>Is_Communicating</b>	D	High to indicate the module is communicating with the device.
<b>Is_Initialized</b>	D	High to indicate the module is initialized and that data has been synchronized between the module and the device.
<b>Debug_Enabled</b>	D	High to indicate that debugging has been enabled and internal SIMPL# messages will be printed in Debugger.
<b>Latching_Mics_Enabled</b>	D	High to indicate that latching mics have been enabled and the module will poll periodically for button state.
<b>Passback_Enabled</b>	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
<b>Passback_Text</b>	S	If Passback_Enabled is high, all responses from the device will be returned on this serial signal.
<b>Switch_Address</b>	S	Value reflecting the Switch Address as set on the front panel of the device.
<b>IP_Address</b>	S	Value reflecting the IP Address of the device.
<b>Arm_C_Mic_Is_Up</b>	D	High to indicate the Arm-C Microphone is currently up.
<b>Phantom_Is_On_Ch[x]</b>	D	High to indicate the Phantom Power for a specific channel is on.
<b>Preset_Saved</b>	D	High to indicate that the current settings have been saved. Note: as of this writing, preset 0 is the only preset available.
<b>Button_Ch[x]_Is_On</b>	D	High to indicate the Button Input for a specific channel is on.
<b>LED_R_Is_On_Ch[x]</b>	D	High to indicate the Red LED for a specific channel is on.
<b>LED_G_Is_On_Ch[x]</b>	D	High to indicate the Green LED for a specific channel is on.
<b>LED_R_Bright_Level_Ch[x]</b>	A	Value indicating the current brightness level of the Red LED for a specific channel. Valid values: 0 - 65535
<b>LED_G_Bright_Level_Ch[x]</b>	A	Value indicating the current brightness level of the Green LED for a specific channel. Valid values: 0 - 65535