

Partner: Cloud
Model: DCM-1
Device Type: Audio Mixer



GENERAL INFORMATION:

SIMPLWINDOWS NAME:	"Cloud DCM-1 v1.0.umc"
CATEGORY:	Mixer
VERSION:	V1.0
SUMMARY:	This module will control the Cloud DCM-1 multi-zone audio mixer via RS232.
GENERAL NOTES:	<p>This module will control the Cloud DCM-1 multi-zone audio mixer via RS232. It offers volume control and source selection for all zones and groups. A group represents multiple zones that act as one.</p> <p>The module also offers functionality to adjust the gain off all sources, to access or release zones for the paging microphone and to enable or disable sources and microphones in specific zones.</p>
CRESTRON HARDWARE REQUIRED:	2-series processor with a COM port
SETUP OF CRESTRON HARDWARE:	RS232C Baud: 300/1200/2400/4800/9600/19200 Parity: N Data Bits: 8 Stop Bits: 1
VENDOR FIRMWARE:	V1.04
VENDOR SETUP:	Connect the serial port of the DCM-1 to a serial port of the Crestron processor.
CABLE DIAGRAM:	CNSP-121



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CONTROL:

ZoneX_Poll	D	Pulse to poll the Volume level and Source Selection of zone X. Range X: 1-8.
ZoneX_Music_Up	D	Pulse to raise the Volume level of zone X. Range X: 1-8.
ZoneX_Music_Down	D	Pulse to lower the Volume level of zone X. Range X: 1-8.
ZoneX_Music_Mute	D	Pulse to mute the volume of zone X. Range X: 1-8.
ZoneX_Source_Up	D	Pulse to select the next available source for Zone X. Range X: 1-8.
ZoneX_Source_Down	D	Pulse to select the previous available source for Zone X. Range X: 1-8.
ZoneX_Select_SourceY	D	Pulse to select Source Y in zone X. Range X: 1-8, range Y: 1-8.
GroupX_Poll	D	Pulse to poll the Volume level and Source Selection of Group X. Range X: 1-4.
GroupX_Enable	D	Pulse to Enable group X. Range X: 1-4.
GroupX_Disable	D	Pulse to disable group X. Range X: 1-4.
GroupX_Toggle_Group_State	D	Pulse to toggle the group status of group X: Range X: 1-4.
GroupX_Music_Up	D	Pulse to raise the Volume level of Group X. Range X: 1-4.
GroupX_Music_Down	D	Pulse to lower the Volume level of Group X. Range X: 1-4.
GroupX_Music_Mute	D	Pulse to mute the volume of Group X. Range X: 1-4.
GroupX_Source_Up	D	Pulse to select the next available source for Group X. Range X: 1-4.
GroupX_Source_Down	D	Pulse to select the previous available source for Group X. Range X: 1-4.
GroupX_Select_SourceY	D	Pulse to select Source Y in Group X. Range X: 1-8, range Y: 1-4.
Poll_Setup	D	Pulse to poll the status of all sources and microphones for every zone and group.
Select_Next_Zone	D	Pulse to select the next zone/Group.
Select_Previous_Zone	D	Pulse to select the previous zone/Group.
Enable_SourceX	D	Pulse to enable source X. Range X: 1-8.
Disable_SourceX	D	Pulse to disable source X. Range X: 1-8.
Toggle_SourceX_State	D	Pulse to toggle the state of source X: Range X: 1-8.

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Poll_Sources_Gain	D	Pulse to poll the gain values of all sources.
SourceX_Gain_Up	D	Pulse to raise the gain of source X. Range X: 1-8.
SourceX_Gain_Down	D	Pulse to lower the gain of source X. Range X: 1-8.
SourceX_Set_Gain	A	Analog input to set the gain for source X. Range X: 1-8. Use values between -12 and 12 for this input.
PM_Access_ZoneX	D	Pulse to access zone X. Range X: 1-8.
PM_Release_ZoneX	D	Pulse to release zone X. Range X: 1-8.
PM_Toggle_ZoneX_State	D	Pulse to toggle the Access/Release state of zone X. Range X: 1-8.
PM_Clear_All_Zones	D	Pulse to release all zones.
Poll_System_Info	D	Pulse to poll for system info
Save_As_Default	D	Pulse to save the current settings as default.
Reset_DCM_1	D	Pulse to reset the DCM-1. Be aware: this will also reset the settings of the serial port.
FromDevice	S	Serial string data received from the device on its serial connection.

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FEEDBACK:

ZoneX_Music_Level_Analog	A	Analog signal indicating the volume level of zone X. Range X: 1-8.
ZoneX_Music_Is_Muted	D	High to indicate that the music in zone X is muted. Range X: 1-8.
ZoneX_SourceY_Is_Selected	D	High to indicate that source Y is selected in zone X. Range X: 1-8, Range Y: 1-8.
GroupX_Is_Enabled	D	High to indicate that group X is enabled. Range X: 1-4.
GroupX_Is_Disabled	D	High to indicate that group X is disabled. Range X: 1-4.
GroupX_Music_Level_Analog	A	Analog signal indicating the volume level of group X. Range X: 1-4.
GroupX_Music_Is_Muted	D	High to indicate that the music in group X is muted. Range X: 1-4.
GroupX_SourceY_Is_Selected	D	High to indicate that source Y is selected in group X. Range X: 1-4, Range Y: 1-8.
Selected_Zone_Text	S	Serial signal indicating the selected zone/group.
SourceX_Is_Enabled	D	High to indicate that source X is enabled in the selected zone. Range X: 1-8.
SourceX_Is_Disabled	D	High to indicate that source X is disabled in the selected zone. Range X: 1-8.
MicX_Is_Enabled	D	High to indicate that microphone X is enabled in the selected zone. Range X: 1-4.
MicX_Is_Disabled	D	High to indicate that microphone X is disabled in the selected zone. Range X: 1-4.
SourceX_Gain_Analog	A	Analog signal indicating the gain level of source X. Range X: 1-4.
PM_ZoneX_Is_Accessed	D	High to indicate that zone X is accessed by the paging microphone. Range X: 1-8.
PM_ZoneX_Is_Released	D	High to indicate that zone X is released by the paging microphone. Range X: 1-8.
Software_Version_Text	S	Serial signal indicating the used software version.
Hardware_Version_Text	S	Serial signal indicating the used hardware version.
ToDevice	S	Serial string data send to the device on its serial connection.

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**TESTING:**

OPS USED FOR TESTING:	V. 4.003.0015
SIMPL WINDOWS USED FOR TESTING:	V. 3.01.37
CRESTRON DB USED FOR TESTING:	V. 26.00.008.00
DEVICE DB USED FOR TESTING:	V. 33.05.007.00
SAMPLE PROGRAM:	"Cloud DCM-1 v1.0 PRO2 Demo.smw"
REVISION HISTORY:	V. 1.0