

ANALOG WAY MIDRA™ – Crestron 2-series & 3-series AUDIO MODULE

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NOTES:	Driver version V1.10 , tested with MIDRA™ Firmware v01.01.03 and v01.02.11
HAND-IN DATE:	April 16, 2014

GENERAL INFORMATION

SIMPLWINDOWS NAME:	Midra_audio_V1.10
CATEGORY:	Logic
VERSION:	Driver version V1.10
SUMMARY:	<p>This is an optional module for controlling Midra™ series switchers. If this module is used in your program then you have also to include and configure the module Midra_In_Video. This module allows you to:</p> <ul style="list-style-type: none"> - Configure audio mode - Mute/Unmute audio inputs and outputs - Set inputs and outputs volume - Configure output audio routing - Receive misc. status feedbacks <p>This module must be connected to the Midra_main module and to the Midra_In_Video module.</p>
GENERAL NOTES:	-
CRESTRON HARDWARE REQUIRED:	2 series processor or 3 series processor
SETUP OF CRESTRON HARDWARE:	-
VENDOR FIRMWARE:	MIDRA™ firmware V01.02.11
VENDOR SETUP:	-
CABLE DIAGRAM:	TCP-IP

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CONTROL: Inter_connect_Module

From_Module_Main	S	To be connected to the Midra_Main module
Refresh_All	D	Pulse for module initialization
To_Module_Main	S	To be connected to the Midra_Main module
Message_Txt	S	Module text status. To be connected to the Midra_Main module
Next_Module_Refresh_OS	D	To be connected to the next module for daisy chain initialization

CONTROL: General

Audio_Mode_No_Audio_PB	D	Pulse to select 'No_Audio' mode
Audio_Mode_Routing_PB	D	Pulse to select 'Routing' mode
Audio_Mode_Preset_PB	D	Pulse to select 'Preset' mode

CONTROL: Chek_input - X is the audio input number (1=>18)

Check_InputX_Infos_PB	D	Pulse to refresh Input X status
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CONTROL: Audio_Inputs - X is the audio input number (1=>18)

Input_AudioX_Audio_Mute_PB	D	Pulse to mute/unmute Input X
Input_AudioX_Volume	A	Set Input X volume

CONTROL: Audio_Outputs - X is the output number (1=>2)

OutX_Audio_Mute_PB	D	Pulse to mute/unmute Output X
OutX_Volume	A	Set Output X volume

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CONTROL: Audio_selectors - Analog value is the audio input number (1=>18)

Select_Audio_For_Out1	A	Audio input selection for Output 1 (on value change)
Select_Audio_For_Out2	A	Audio input selection for Output 2 (on value change)

FEEDBACK : Inter_connect_Module - X is the input video number (1=>10)

Refresh_In_Progress_FB	D	Module refresh in progress
InputX_Active_Plug_FB	A	Selected plug feedback for input video X (from Midra_In_Video module)
Video_Mode_Mixer_FB	D	1 if Mixer mode is enabled (From Midra_Main module)
Video_Mode_Matrix_FB	D	1 if Matrix mode is enabled (From Midra_Main module)
Video_Mode_Quad_FB	D	1 if Quadravision mode is enabled (From Midra_Main module)

FEEDBACK : General

Audio_Mode_No_Audio_FB	D	1 if 'No_Audio' mode is enabled
Audio_Mode_Routing_FB	D	1 if 'Routing' mode is enabled
Audio_Mode_Preset_FB	D	1 if 'Preset' mode is enabled

FEEDBACK : Audio_from_video_status - X is the input video number (1=>10)

InputX_Audio_Detected_FB	D	Audio signal detection status for Input X
InputX_Audio_Supported_FB	D	Audio signal availability status for Input X
InputX_Audio_Type_FB	A	Signal type for Input X (see table below)

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FEEDBACK : Audio_Inputs (X is the audio input number (1=>18))

Input_AudioX_Audio_Mute_FB	D	1 if Input X is muted
Input_AudioX_Volume_FB	A	Input X volume

FEEDBACK : Audio_Outputs (X is the output number (1=>2))

OutX_Audio_Mute_FB	D	1 if Output X is muted
OutX_Volume_FB	A	Output X volume

FEEDBACK : Audio_selectors

Select_Audio_For_Out1_FB	A	Selected Audio input for Output 1
Select_Audio_For_Out2_FB	A	Selected Audio input for Output 2

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Values for InputX audio Type FB	
0	Unknown audio format type
1	PCM (Pulse Code Modulation) audio format type
2	AC 3 audio format type
3	MPEG 1 audio format type
4	MP3 audio format type
5	MPEG 2 audio format type
6	AAC LC audio format type
7	DTS audio format type
8	ATRAC audio format type
9	DSD audio format type
10	Extended AC 3 audio format type
11	DTS HS audio format type
12	MLP audio format type
13	DST audio format type
14	WMA Pro audio format type
15	HE AAC audio format type
16	HE AAC v2 audio format type
17	MPEG Surround audio format type