

# ANALOG WAY MIDRA

## Module: AUDIO

### Crestron 2-series & 3-series

Date: **December 10, 2013**  
Driver version: **V1.00**  
Tested with: **Midra Firmware V01.00.12**

## GENERAL

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:

- Configure audio mode
- Mute/Unmute audio inputs and outputs
- Set inputs and outputs volume
- Configure output audio routing
- Receive misc. status feedbacks

## CONNECTION

This module must be connected to the Midra\_main module and to the Midra\_In\_Video module.

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## Control

### Inter\_connect\_Module

X is the input video number (1=>10)

From_Module_Main	String_in	To be connected to the Midra_Main module
Refresh_All	Digital_in	Pulse for module initialization
To_Module_Main	String_out	To be connected to the Midra_Main module
Message_Txt	String_out	Module text status. To be connected to the Midra_Main module
Refresh_In_Progress_FB	Digital_out	Module refresh in progress
Next_Module_Refresh_OS	Digital_out	To be connected to the next module for daisy chain initialization
InputX_Active_Plug_FB	Ana_in	Selected plug feedback for input video X (from Midra_In_Video module)
Video_Mode_Mixer_FB	Digital_in	1 if Mixer mode is enabled (From Midra_Main module)
Video_Mode_Matrix_FB	Digital_in	1 if Matrix mode is enabled (From Midra_Main module)
Video_Mode_Quad_FB	Digital_in	1 if Quad mode is enabled (From Midra_Main module)

### General

Audio_Mode_No_Audio_PB	Digital_in	Pulse to select 'No_Audio' mode
Audio_Mode_Routing_PB	Digital_in	Pulse to select 'Routing' mode
Audio_Mode_Preset_PB	Digital_in	Pulse to select 'Preset' mode
Audio_Mode_No_Audio_FB	Digital_out	1 if 'No_Audio' mode is enabled
Audio_Mode_Routing_FB	Digital_out	1 if 'Routing' mode is enabled
Audio_Mode_Preset_FB	Digital_out	1 if 'Preset' mode is enabled

### Check\_input

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

Check_InputX_Infos_PB	Digital_in	Pulse to refresh Input X status
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### Audio\_from\_video\_status

X is the input number (1=>10)

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

### Audio\_Inputs

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

Input_AudioX_Audio_Mute_PB	Digital_in	Pulse to mute/unmute Input X
Input_AudioX_Volume	Ana_in	Set Input X volume
Input_AudioX_Audio_Mute_FB	Digital_out	1 if Input X is muted
Input_AudioX_Volume_FB	Ana_out	Input X volume

### Audio\_Outputs

X is the output number (1=>2)

OutX_Audio_Mute_PB	Digital_in	Pulse to mute/unmute Output X
OutX_Volume	Ana_in	Set Output X volume
OutX_Audio_Mute_FB	Digital_out	1 if Output X is muted
OutX_Volume_FB	Ana_out	Output X volume

### Audio\_Selectors

Analog value is the audio input number (1=>18)

Select_Audio_For_Out1	Ana_in	Audio input selection for Output 1 (on value change)
Select_Audio_For_Out2	Ana_in	Audio input selection for Output 2 (on value change)
Select_Audio_For_Out1_FB	Ana_out	Selected Audio input for Output 1
Select_Audio_For_Out2_FB	Ana_out	Selected Audio input for Output 2

## 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