ANALOG WAY MIDRA

Module: AUDIO

AMX NETLINX

Date: **October 16, 2017**
Driver version: **V1.11**
Tested with: **Midra Firmware v02.00.15**

INTRODUCTION

This is an optional module for controlling Midra series switchers. This module allows you to control Midra audio input/outputs and let you adjust the corresponding volume levels.

Analog Way Worldwide
Europe, Middle East & Africa: +33 (0)1 81 89 08 60
The Americas: +1 212 269 1902
Asia Pacific: +65 6292 5800
www.analogway.com

IMPLEMENTATION

To interface this module in an AMX program, the programmer must perform the following tasks:

- Edit the file Midra_User_Definitions.axi: If the AUDIO module is used in the main program then you must assign the value 1 to the variable Midra_*Audio*_Usage. If this is not the case, the value of this variable must remain at 0.

- Include the Midra_Audio module in the main program and adjust specific module parameters (see example program available with this package).

COMMANDS

Command Control

None

Channels

The channels supported by the AUDIO module are listed below.

Channel code	Description
1	Disable audio support
2	Set audio mode to 'Preset'
3	Set audio mode to 'Routing'
11..28	Read audio Input X properties (channel 11 for input 1, channel 12 for input 2, …)
51..68	Mute/unmute audio Input X (channel 51 for input 1, channel 52 for input 2, …)
71..72	Mute/unmute audio Output X (channel 71 for output 1 or channel 72 for output 2)
255	Module initialization (automatically performed after being connected)

Levels

The levels supported by the AUDIO module are listed below.

Level code	Description
1..2	Select audio input source for Output X (level 1 for output 1 or level 2 for output 2) Value from 0 to 18 -> Cf. table below (audio input codes)
5..6	Set Volume of audio Output X (level 5 for output 1 or level 6 for output 2) Value from 0 to 192
11..28	Set Volume of audio Input X (level 11 for Input 1, level 12 for Input 2, …) Value from 0 to 255

FEEDBACKS

Channels

The channels supported by the AUDIO module are listed below.

Channel code	Description
1	Audio disabled
2	'Preset' mode enabled
3	'Routing' mode enabled
31..40	Embedded audio detected in the input X digital video signal (level 31 for input 1, level 32 for input 2, …)
41..50	Audio signal supported for input X (channel 41 for input 1, channel 42 for input 2, …)
51..68	Audio Input X mute status (channel 51 for input 1, channel 52 for input 2, …)
71..72	Audio Output X mute status (channel 71 for output 1 or channel 72 for output 2)
101..110	Input X embedded audio signal extracted to output 1 (channel 101 for input 1, channel 102 for input 2, …)
121..130	Input X embedded audio signal extracted to output 2 (channel 121 for input 1, channel 122 for input 2, …)
255	Module initialization status

Levels

The levels supported by the AUDIO module are listed below.

Level code	Description
3..4	Current audio input selected for Output X (level 3 for output 1 or level 4 for output 2) Value from 0 to 18 -> Cf. table below (audio input codes)
7..8	Volume of audio Output X (level 7 for output 1 or level 8 for output 2) Value from 0 to 192
31..48	Volume of audio Input X (level 31 for Input 1 , level 32 for Input 2, …) Value from 0 to 255
51..60	Code of the audio signal detected for Input X (level 51 for input 1, level 52 for input 2, …). The level value is the format code for the corresponding input -> Cf. table below (audio format codes)

Texts

The texts supported by the AUDIO module are listed below.

Address code	Description
51..60	Description of the audio signal detected for Input X (Address 51 for input 1, Address 52 for input 2, …) -> Cf. table below (audio format codes)

Analog Way Worldwide
Europe, Middle East & Africa: +33 (0)1 81 89 08 60
The Americas: +1 212 269 1902
Asia Pacific: +65 6292 5800
www.analogway.com

Audio input codes

0	None
1	Input 1 Analog
2	Input 2 Analog
3	Input 3 Analog
4	Input 4 Analog
5	Input 1 DVI
6	Input 2 DVI
7	Input 3 DVI
8	Input 4 DVI
9	Input 3 HDMI
10	Input 4 HDMI
11	Input 5 HDMI
12	Input 6 HDMI
13	Input 7 SDI
14	Input 8 SDI
15	Input 9 SDI
16	Input 10 SDI
17	Input SPDIF 1
18	Input SPDIF 2

Analog Way Worldwide
Europe, Middle East & Africa: +33 (0)1 81 89 08 60
The Americas: +1 212 269 1902
Asia Pacific: +65 6292 5800
www.analogway.com

Audio format codes

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

Analog Way Worldwide
Europe, Middle East & Africa: +33 (0)1 81 89 08 60
The Americas: +1 212 269 1902
Asia Pacific: +65 6292 5800
www.analogway.com