

ANALOG WAY MIDRA

Module: GENERAL

AMX NETLINX

Date: **April 16, 2014**
Driver version: **V1.10**
Tested with: **Midra Firmware v01.01.03 and v01.02.11**

INTRODUCTION

This module is the core module for controlling Midra series switchers and must be implemented once in the main program.

IMPLEMENTATION

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

- Include the Midra_General 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 GENERAL module are listed below.

Channel code	Description
1	Initiate IP connection
2	Stop IP connection
11	Read the Midra switcher type
12	Read the Midra switcher version
13	Read Midra Updater version
14	Read Midra serial number
211	Select 'mixer' switcher mode
212	Select 'matrix' switcher mode
213	Select 'quadravision' switcher mode
220	Enable or disable the display of the "Quick Frame" when a displayed layer source is lost (Auto Quick Frame)
221	Start the transition from Preview to the Main (according to selected mode) for all screens
222	1 if Take is available for all screens (see sample program)
223	Enable/disable the display of the frame selected as the "Quick Frame" with a cut transition on ALL screens
224	Pulse to freeze/unfreeze all layers of all screens
250	Shutdown Midra switcher
251	Wakeup Midra switcher
254	Ping Midra switcher
255	Module initialization (automatically performed after being connected). When done, any other modules included and declared in the project will be initialized.

FEEDBACKS

Channels

The channels supported by the GENERAL module are listed below.

FLAGS

Channel code	Description
21	Mixer_Mode_Available_FB 1 if 'Mixer' switcher mode is available
22	Matrix_Mode_Available_FB 1 if 'Matrix' switcher mode is available
23	Quad_Mode_Available_FB 1 if 'Quadravision' switcher mode is available
26	Mosaic_Available_FB 1 if mosaic display is available for output 2
27	OSD_Available_FB 1 if On Screen Display is available
28	Video_Out_Available_FB 1 if Video Output is available
29	Layer_Flip_Available_FB 1 if live layer content flip is available
30	Background_Resize_Available_FB 1 if the background live layer is resizable
31	Frame_Only_Available_FB 1 if the frames can be captured as Quick-Frame
32..36	Border_StyleX_Available_FB (32 for style NONE, 33 for style EDGE, 34 for style SMOOTH, 35 for style SMOOTH EDGE and 36 for style SHADOW)
41 to 48	Mixer_Mode_Layers_Available_FB 1 if layer X is available with 'Mixer' switcher mode (41 for layer 1, 42 for layer 2 ...)
51 to 58	Matrix_Mode_Layers_Available_FB 1 if layer X is available with 'Matrix' switcher mode (51 for layer 1, 52 for layer 2 ...)
61 to 68	Quad_Mode_Layers_Available_FB 1 if layer X is available with 'Quadravision' switcher mode (61 for layer 1, 62 for layer 2 ...)
81 to 87	Frame_Transition_Available_FB 1 if transition is available for 'Frame' layer (81 for Cut, 82 for Clean Cut, 83 for Fade, 84 for Slide, 85 for Wipe, 86 for Circle and 87 for Stretch)
91 to 97	PIP1_Transition_Available_FB

	1 if transition is available for 'PIP1' layer (91 for Cut, 92 for Clean Cut, 93 for Fade, 94 for Slide, 95 for Wipe, 96 for Circle and 97 for Stretch)
101 to 107	PIP2_Transition_Available_FB 1 if transition is available for 'PIP2' layer (101 for Cut, 102 for Clean Cut, 103 for Fade, 104 for Slide, 105 for Wipe, 106 for Circle and 107 for Stretch)
111 to 117	PIP3_Transition_Available_FB 1 if transition is available for 'PIP3' layer (111 for Cut, 112 for Clean Cut, 113 for Fade, 114 for Slide, 115 for Wipe, 116 for Circle and 117 for Stretch)
121 to 127	PIP4_Transition_Available_FB 1 if transition is available for 'PIP4' layer (121 for Cut, 122 for Clean Cut, 123 for Fade, 124 for Slide, 125 for Wipe, 126 for Circle and 127 for Stretch)
131 to 137	LOGO1_Transition_Available_FB 1 if transition is available for 'LOGO1' layer (131 for Cut, 132 for Clean Cut, 133 for Fade, 134 for Slide, 135 for Wipe, 136 for Circle and 137 for Stretch)
141 to 147	LOGO2_Transition_Available_FB 1 if transition is available for 'LOGO2' layer (141 for Cut, 142 for Clean Cut, 143 for Fade, 144 for Slide, 145 for Wipe, 146 for Circle and 147 for Stretch)
151 to 157	Audio_Transition_Available_FB 1 if transition is available for 'AUDIO' layer (151 for Cut, 152 for Clean Cut, 153 for Fade, 154 for Slide, 155 for Wipe, 156 for Circle and 157 for Stretch)

OTHERS

Channel code	Description
211	Video_Mode_Mixer_FB 1 if Mixer mode is enabled
212	Video_Mode_Matrix_FB 1 if Matrix mode is enabled
213	Video_Mode_Quad_FB 1 if QuadraVision mode is enabled
220	1 if Auto Quick Frame is enabled
223	Quick_Frame_All_FB 1 to force the frame selected as the "Quick Frame" to be displayed with a cut transition on ALL screens
224	Freeze_Frame_All_FB 1 if all layers of all screens are 'frozen'
231	Out1_HDCP_Warning 1 if HDCP content is forced to black on output 1

232	Out2_HDCP_Warning 1 if HDCP content is forced to black on output 2
250	1 if Midra is in Standby mode
251	1 if Midra is exiting Standby mode
252	1 if Midra is ready to be used
253	IP connection status
255	Module initialization status

Levels

The levels supported by the GENERAL module are listed below.

Level code	Description
1	Entering Standby progression (%)

Texts

The texts supported by the GENERAL module are listed below.

Address code	Description
1	Midra switcher type
2	Midra switcher version
3	Midra switcher Updater version
4	Midra switcher serial number
21	End user messages