ANALOG WAY MIDRA

Module: SCREEN

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. This module allows you to:

- Start the transition from Preview to Main
- Read/change screen layers properties
- Change TBar position
- Read misc. status

One module per screen has to be implemented in the project.

CONNECTION

This module has to be connected to Midra_Main module.

Control

Inter_connect_module

From_Module_Main	String_in	To be connected to the Midra_Main module
Refresh_All	Digital_in	Pulse for module initialization
Video_Mode_Mixer_FB	Digital_in	1 if Mixer mode is enabled. To be connected to the Midra_Main module
Video_Mode_Matrix_FB	Digital_in	1 if Matrix mode is enabled. To be connected to the Midra_Main module
Video_Mode_Quad_FB	Digital_in	1 if Quadravision mode is enabled. To be connected to the Midra_Main module
To_Module_Main	String_out	To be connected to the Midra_Main module
Message_Txt	String_out	Midra_Screen 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 next module for daisy chain initialization

General

Refresh_Screen_PB	Digital_in	Pulse to refresh screen status
Screen_Take_PB	Digital_in	Start the transition from Preview to the Main (according to selected mode)
Screen_TBar_Set	Ana_in	TBar control. 0% TBar is down. 100% TBar is up
Screen_Freeze_PB	Digital_in	Pulse to freeze/unfreeze all layers of the screen
Screen_Auto_Quick_Frame_PB	Digital_in	Pulse to enable/disable the display of the "Quick Frame" when a displayed layer source is lost
Screen_Quick_Frame_PB	Digital_in	Enable/disable the display of the "Quick Frame" on the background layer (all other layers are hidden)
NB_Layers_Valid_FB	Ana_out	Number of valid layers for this screen
Screen_Take_FB	Digital_out	Take in progress status
Screen_Take_Available_FB	Digital_out	1 if Take is available
Screen_Take_One_Shot_FB	Digital_out	Take status: 1 if transition will be applied in one step
Screen_Take_Two_Shots_FB	Digital_out	Take status: 1 if transition will be applied in two steps
Screen_Take_Auto_Sequence_FB	Digital_out	Take status: 1 if transition will be applied in multiple steps (using using 'CLOSING' and 'OPENING' transitions)
Screen_TBar_Value_FB	Ana_out	TBar feedback
Screen_Freeze_PB	Digital_out	1 if screen is frozen
Screen_Auto_Quick_Frame_FB	Digital_in	1 if auto quick frame function is enabled
Screen_Quick_Frame_PB	Digital_out	1 if quick frame function is enabled

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

Check_Layer

X is the layer (1=>7)

Check_Layer_X_infos_PB	Digital_in	Pulse to refresh layer status

Y_Layers - Y is the Main or the Preview

X is the layer (1=>7)

Layer_X_Input_For_Y_Set	Analog_in	Layer X input selection (destination Y)
X_Freeze_For_Y_PB (toggle function)	Digital_in	Pulse to freeze/unfreeze layer X (destination Y)
X_Border_Off_For_Y_PB	Digital_in	Pulse to disable layer X border (destination Y)
X_Border_Edge_For_Y_PB	Digital_in	Pulse to enable layer X border type 'edge' (destination Y)
X_Border_Shadow_For_Y_PB	Digital_in	Pulse to enable layer X border type 'shadow' (destination Y)
X_Border_Alpha_For_Y_Set	Analog_in	Set layer X border transparency (destination Y)
Layer_X_Input_For_Y_FB	Ana_out	Selected Layer X input (destination Y)
X_Freeze_For_Y_FB	Digital_out	Layer X freeze status (destination Y)
X_Border_Off_For_Y_FB	Digital_out	1 if layer X border is disabled (destination Y)
X_Border_Edge_For_Y_FB	Digital_out	1 if layer X border type 'edge' is enabled (destination Y)
X_Border_Shadow_For_Y_FB	Digital_out	1 if layer X border type 'shadow' is enabled (destination Y)
X_Border_Alpha_For_Y_FB	Ana_out	Layer X border transparency value (destination Y)

Parameters

Number_Screen_0-1	Param	Set the screen number (1 module per screen)

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