

ANALOG WAY MIDRA™ – Crestron 3-series SCREEN MODULE

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NOTES:	Driver version V1.11 , tested with MIDRA™ Firmware v02.00.15
HAND-IN DATE:	October 16, 2017

GENERAL INFORMATION	
SIMPLWINDOWS NAME:	Midra_Screen_V1.11
CATEGORY:	Logic
VERSION:	Driver version V1.11
SUMMARY:	<p>This is an optional module for controlling Midra™ series switchers. This module allows you to:</p> <ul style="list-style-type: none"> - Start the transition from Preview to Main - Read/change screen layers properties - Change TBar position - Read misc. status <p>One module per screen has to be implemented in the project. This module has to be connected to Midra_Main module.</p>
GENERAL NOTES:	-
CRESTRON HARDWARE REQUIRED:	3 series processor
SETUP OF CRESTRON HARDWARE:	-
VENDOR FIRMWARE:	MIDRA™ firmware V02.00.15
VENDOR SETUP:	-
CABLE DIAGRAM:	TCP-IP

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CONTROL: Inter_connect_screen_module

From_Module_Main	S	To be connected to the Midra_Main module
Refresh_All	D	Pulse for module initialization
Video_Mode_Mixer_FB	D	1 if Mixer mode is enabled. To be connected to the Midra_Main module
Video_Mode_Matrix_FB	D	1 if Matrix mode is enabled. To be connected to the Midra_Main module
Video_Mode_Quad_FB	D	1 if Quadravision mode is enabled. To be connected to the Midra_Main module

CONTROL: General

Refresh_Screen_PB	D	Pulse to refresh screen status
Screen_Take_PB	D	Start the transition from Preview to the Main (according to selected mode)
Screen_TBar_Set	A	TBar control. 0% TBar is down. 100% TBar is up
Screen_Freeze_PB	D	Pulse to freeze/unfreeze all layers of the screen
Screen_Auto_Quick_Frame_PB	D	Pulse to enable/disable the display of the "Quick Frame" when a displayed layer source is lost
Screen_Quick_Frame_PB	D	Enable/disable the display of the "Quick Frame" on the background layer (all other layers are hidden)
Screen_Auto_Quick_Frame_FB	D	1 if auto quick frame function is enabled

CONTROL: Check_Layer - X is the layer (1=>7)

Check_Layer_X_infos_PB	D	Pulse to refresh layer status
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CONTROL: Y_Layers - Y is the Main or the Preview and X is the layer (1=>7)

Layer_X_Input_For_Y_Set	A	Layer X input selection (destination Y)
X_Freeze_For_Y_PB (toggle function)	D	Pulse to freeze/unfreeze layer X (destination Y)
X_Border_Off_For_Y_PB	D	Pulse to disable layer X border (destination Y)
X_Border_Edge_For_Y_PB	D	Pulse to enable layer X border type 'edge' (destination Y)
X_Border_Shadow_For_Y_PB	D	Pulse to enable layer X border type 'shadow' (destination Y)
X_Border_Alpha_For_Y_Set	A	Set layer X border transparency (destination Y)

FEEDBACK : Inter_connect_module

To_Module_Main	S	To be connected to the Midra_Main module
Message_Txt	S	Midra_Screen module text status. To be connected to the Midra_Main module
Refresh_In_Progress_FB	D	Module refresh in progress
Next_Module_Refresh_OS	D	To be connected to next module for daisy chain initialization

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FEEDBACK : General		
NB_Layers_Valid_FB	A	Number of valid layers for this screen
Screen_Take_FB	D	Take in progress status
Screen_Take_Available_FB	D	1 if Take is available
Screen_Take_One_Shot_FB	D	Take status: 1 if transition will be applied in one step
Screen_Take_Two_Shots_FB	D	Take status: 1 if transition will be applied in two steps
Screen_Take_Auto_Sequence_FB	D	Take status: 1 if transition will be applied in multiple steps (using using 'CLOSING' and 'OPENING' transitions)
Screen_TBar_Value_FB	A	TBar feedback
Screen_Freeze_PB	D	1 if screen is frozen
Screen_Auto_Quick_Frame_FB	D	1 if auto quick frame function is enabled
Screen_Quick_Frame_PB	D	1 if quick frame function is enabled

FEEDBACK : Y_Layers - Y is the Main or the Preview and X is the layer (1=>7)		
X_Freeze_For_Y_FB	D	Layer X freeze status (destination Y)
X_Border_Off_For_Y_FB	D	1 if layer X border is disabled (destination Y)
X_Border_Edge_For_Y_FB	D	1 if layer X border type 'edge' is enabled (destination Y)
X_Border_Shadow_For_Y_FB	D	1 if layer X border type 'shadow' is enabled (destination Y)
X_Border_Alpha_For_Y_FB	A	Layer X border transparency value (destination Y)



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PARAMETERS

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