

Crestron Module Documentation

for an

ATLONA

AT-LINE-PRO4 10 Input Scaler Switcher

Module developed for Atlona by Front Side Solutions.

www.frontsidesolutions.com

General Information:

Notes	
SIMPLWINDOWS NAME:	Atlona AT-LINE-PRO4 Basic r0.0.umc
CATEGORY:	Multi Input Scaler Switch
VERSION:	r0.0
SUMMARY:	This module controls Power, Switching and multiple controllable setting values of the Atlona AT-LINE-PRO4 Scaler Switch.
GENERAL NOTES:	This module controls Power, Switching and multiple controllable setting values of the Atlona AT-LINE-PRO4 Scaler Switch. NOTE: All Digital inputs are buffered inside the module.
CRESTRON HARDWARE REQUIRED:	ST-COM, C2-COM, C2ENET-1/2
SETUP OF CRESTRON HARDWARE:	Unit Default is RS232 Baud: 19200 Parity: N Data Bits: 8 Stop Bits: 1.

Control

Signal Name	Type	Notes
Power_On	D	Pulse to turn unit on.
Power_Off	D	Pulse to turn unit off.
CV_Input	D	Pulse to select Composite input
SV_Input	D	Pulse to select S-Video input
Comp_Input	D	Pulse to select Component Video input
PC1_Input	D	Pulse to select PC 1 input
PC2_Input	D	Pulse to select PC 2 input
PC3_Input	D	Pulse to select PC 3 input
HDMI1_Input	D	Pulse to select HDMI 1 input
HDMI2_Input	D	Pulse to select HDMI 2 input
HDMI3_Input	D	Pulse to select HDMI 3 input
HDMI4_Input	D	Pulse to select HDMI 4 input
Audio_Direct	A	Set to value 0-9 to select the input source
Audio_Mute_On	D	Pulse to mute audio output
Audio_Mute_Off	D	Pulse to un-mute audio output
Poll_Enable	D	Pulse for a quick poll of the switcher. If latched, switcher will be polled every 5 seconds for changes. Module is updated based on real-time responses to commands sent to the unit, so if you do not expect the user to access the front panel to make switching changes, polling beyond the initial sync is optional.
Device_Rx_\$	S	Connect to RS232 receive.
Output_Native	D	Pulse to set the scaler's output to Native mode
Output_VGA	D	Pulse to set the scaler's output to VGA mode
Output_SVGA	D	Pulse to set the scaler's output to SVGA mode

Output_XGA	D	Pulse to set the scaler's output to XGA mode
Output_SXGA	D	Pulse to set the scaler's output to SXGA mode
Output_UXGA	D	Pulse to set the scaler's output to UXGA mode
Output_480i	D	Pulse to set the scaler's output to 480i mode
Output_480p	D	Pulse to set the scaler's output to 480p mode
Output_720p@60	D	Pulse to set the scaler's output to 720p @ 60hz mode
Output_1080i@60	D	Pulse to set the scaler's output to 1080i @ 60hz mode
Output_576i@60	D	Pulse to set the scaler's output to 576i @ 60hz mode
Output_576p@60	D	Pulse to set the scaler's output to 576p @ 60hz mode
Output_720p@50	D	Pulse to set the scaler's output to 720p @ 50hz mode
Output_1080i@50	D	Pulse to set the scaler's output to 1080i @ 50hz mode
Output_1080p@50	D	Pulse to set the scaler's output to 1080p @ 50hz mode
Output_WXGA	D	Pulse to set the scaler's output to WXGA mode
Output_WSXGA	D	Pulse to set the scaler's output to WSXGA mode
Output_WUXGA	D	Pulse to set the scaler's output to WUXGA mode
Output_Direct	A	Set to value of 0-18 to set the output mode
Size_Full	D	Pulse to set the scaler's picture size mode to Full mode
Size_Overscan	D	Pulse to set the scaler's picture size mode to Overscan mode
Size_Underscan	D	Pulse to set the scaler's picture size mode to Underscan mode
Size_Letterbox	D	Pulse to set the scaler's picture size mode to Letterbox mode
Size_Pan_&_Scan	D	Pulse to set the scaler's picture size mode to Pan & Scan mode
Size_Follow_Input	D	Pulse to set the scaler's picture size mode to Follow Input mode
Size_Direct	A	Se to value of 0-4 to select the picture size mode
PM_Standard	D	Pulse to set the scaler's picture node to Standard mode
PM_Movie	D	Pulse to set the scaler's picture node to Movie mode
PM_Vivid	D	Pulse to set the scaler's picture node to Vivid mode
PM_User	D	Pulse to set the scaler's picture node to User mode
PM_Direct	A	Set to value of 0-3 to select the picture mode setting
Contrast	A	Set to value of 0-100 to adjust picture Contrast
Brightness	A	Set to value of 0-100 to adjust picture Brightness
Hue	A	Set to value of 0-100 to adjust picture Hue
Saturation	A	Set to value of 0-100 to adjust picture color Saturation
Sharpness	A	Set to value of 0-100 to adjust picture Sharpness
NR_Off	D	Pulse to set the Noise Reduction to Off
NR_Low	D	Pulse to set the Noise Reduction to Low

NR_Middle	D	Pulse to set the Noise Reduction to Middle
NR_High	D	Pulse to set the Noise Reduction to High
PC_Phase	A	Set to value of 0-63 to adjust PC input phase
PC_Clock	A	Set to value of 0-63 to adjust PC input Clock
PC_Horz_Position	A	Set to value of 0-63 to adjust PC input Horizontal position
PC_Vert_Position	A	Set to value of 0-63 to adjust PC input Vertical position
Color_Temp_Normal	D	Pulse to set the Color Temp to Normal
Color_Temp_Warm	D	Pulse to set the Color Temp to Warm
Color_Temp_Cool	D	Pulse to set the Color Temp to Cool
Color_Temp_User	D	Pulse to set the Color Temp to User
Red	A	Set to value of 0-100 to adjust the Red color level
Green	A	Set to value of 0-100 to adjust the Green color level
Blue	A	Set to value of 0-100 to adjust the Blue color level
OSD_Horz_Position	A	Set to value of 0-100 to adjust the Horizontal position
OSD_Vert_Position	A	Set to value of 0-100 to adjust the OSD Vertical position
OSD_Timeout	A	Set to value of 0-100 to adjust the OSD Timeout
OSD_Background	A	Set to value of 0-8 to adjust the OSD Background
Audio_Delay_Off	D	Pulse to set the Audio Delay to Off
Audio_Delay_40ms	D	Pulse to set the Audio Delay to 40ms
Audio_Delay_110ms	D	Pulse to set the Audio Delay to 110ms
Audio_Delay_150ms	D	Pulse to set the Audio Delay to 150ms
Key_Power	D	Pulse to toggle the power on/off
Key_Aud_+	D	Pulse to raise the audio output level up
Key_Aud_-	D	Pulse to raise the audio output level down
Key_CV	D	Pulse to select the Composite Video input
Key_SV	D	Pulse to select the S-Video input
Key_Comp	D	Pulse to select the Component Video input
Key_PC1	D	Pulse to select the PC 1 input
Key_PC2	D	Pulse to select the PC 2 input
Key_PC3	D	Pulse to select the PC 3 input
Key_HDMI1	D	Pulse to select the HDMI 1 input
Key_HDM2	D	Pulse to select the HDMI 2 input
Key_HDMI3	D	Pulse to select the HDMI 3 input
Key_HDMI4	D	Pulse to select the HDMI 4 input

Key_Menu	D	Pulse to trigger Menu command
Key_Dec	D	Pulse to trigger the Decrement command
Key_Inc	D	Pulse to trigger the Increment command
Key_Enter	D	Pulse to trigger the Enter command
Key_Source	D	Pulse to scroll through the input selections
Key_VGA	D	Pulse to set the Output mode to VGA mode
Key_SVGA	D	Pulse to set the Output mode to VGA mode
Key_XGA	D	Pulse to set the Output mode to VGA mode
Key_SXGA	D	Pulse to set the Output mode to VGA mode
Key_UXGA	D	Pulse to set the Output mode to VGA mode
Key_1080i60	D	Pulse to set the Output mode to VGA mode
Key_480p	D	Pulse to set the Output mode to VGA mode
Key_720p	D	Pulse to set the Output mode to VGA mode
Key_1080p60	D	Pulse to set the Output mode to VGA mode
Key_480p	D	Pulse to set the Output mode to VGA mode
Key_720p	D	Pulse to set the Output mode to VGA mode
Key_1080p60	D	Pulse to set the Output mode to VGA mode
Key_Up	D	Pulse to trigger the cursor Up command
Key_Down	D	Pulse to trigger the cursor Down command
Key_Left	D	Pulse to trigger the cursor Left command
Key_Right	D	Pulse to trigger the cursor Right command
Key_Exit	D	Pulse to trigger the Exit command
Key_Auto	D	Pulse to trigger the Auto command
Key_Reset	D	Pulse to trigger the Reset command

Feedback

Signal Name	Type	Notes
Power_On_Fb	D	Unit is powered On feedback.
Power_Off_Fb	D	Unit is powered Off feedback.
CV_Input_Fb	D	Unit has the Composite Video input selected
SV_Input_Fb	D	Unit has the S-Video input selected
Comp_Input_Fb	D	Unit has the Component Video input selected
PC1_Input_Fb	D	Unit has the PC 1 input selected
PC2_Input_Fb	D	Unit has the PC 2 input selected
PC3_Input_Fb	D	Unit has the PC 3 input selected
HDMI1_Input_Fb	D	Unit has the HDMI 1 input selected

HDMI2_Input_Fb	D	Unit has the HDMI 2 input selected
HDMI3_Input_Fb	D	Unit has the HDMI 3 input selected
HDMI4_Input_Fb	D	Unit has the HDMI 4 input selected
Output_Native_Fb	D	Unit has the Native output mode selected
Output_VGA_Fb	D	Unit has the VGA output mode selected
Output_SVGA_Fb	D	Unit has the SVGA output mode selected
Output_XGA_Fb	D	Unit has the XGA output mode selected
Output_SXGA_Fb	D	Unit has the SXGA output mode selected
Output_UXGA_Fb	D	Unit has the UXGA output mode selected
Output_480i_Fb	D	Unit has the 480i output mode selected
Output_480p_Fb	D	Unit has the 480p output mode selected
Output_720p@60_Fb	D	Unit has the 720p@60hz output mode selected
Output_1080i@60_Fb	D	Unit has the 1080i@60hz output mode selected
Output_576i@60_Fb	D	Unit has the 576i@60hz output mode selected
Output_576p@60_Fb	D	Unit has the 576p@60hz output mode selected
Output_720p@50_Fb	D	Unit has the 720p@50hz output mode selected
Output_1080i@50_Fb	D	Unit has the 1080i@50hz output mode selected
Output_1080p@50_Fb	D	Unit has the 1080p@50hz output mode selected
Output_WXGA_Fb	D	Unit has the WXGA output mode selected
Output_WSXGA_Fb	D	Unit has the WSXGA output mode selected
Output_WUXGA_Fb	D	Unit has the WUXGA output mode selected
Size_Full_Fb	D	Unit Picture Size is set to Full
Size_Overscan_Fb	D	Unit Picture Size is set to Overscan
Size_Underscan_Fb	D	Unit Picture Size is set to Underscan
Size_Letterbox_Fb	D	Unit Picture Size is set to Letterbox
Size_Pan_& Scan_Fb	D	Unit Picture Size is set to Pan & Scan
Size_Follow_Input_Fb	D	Unit Picture Size is set to Follow input
PM_Standard_Fb	D	Unit Picture Mode is set to Standard
PM_Movie_Fb	D	Unit Picture Mode is set to Movie
PM_Vivid_Fb	D	Unit Picture Mode is set to Vivid
PM_User_Fb	D	Unit Picture Mode is set to User
NR_Off_Fb	D	Unit Noise Reduction mode set to Off
NR_Low_Fb	D	Unit Noise Reduction mode set to Low
NR_Middle_Fb	D	Unit Noise Reduction mode set to Middle
NR_High_Fb	D	Unit Noise Reduction mode set to High
Color_Temp_Normal_Fb	D	Unit Color Temp mode set to Normal
Color_Temp_Warm_Fb	D	Unit Color Temp mode set to Warm
Color_Temp_Cool_Fb	D	Unit Color Temp mode set to Cool
Color_Temp_User_Fb	D	Unit Color Temp mode set to User
Audio_Delay_Off_Fb	D	Unit Audio Delay is set to Off
Audio_Delay_40ms_Fb	D	Unit Audio Delay is set to 40ms
Audio_Delay_110ms_Fb	D	Unit Audio Delay is set to 110ms
Audio_Delay_150ms_Fb	D	Unit Audio Delay is set to 150ms

Key_Power_Fb	D	Reflects the corresponding button press
Key_Aud_+_Fb	D	Reflects the corresponding button press
Key_Aud_-_Fb	D	Reflects the corresponding button press
Key_CV_Fb	D	Reflects the corresponding button press
Key_SV_Fb	D	Reflects the corresponding button press
Key_Comp_Fb	D	Reflects the corresponding button press
Key_PC1_Fb	D	Reflects the corresponding button press
Key_PC2_Fb	D	Reflects the corresponding button press
Key_PC3_Fb	D	Reflects the corresponding button press
Key_HDMI1_Fb	D	Reflects the corresponding button press
Key_HDM2_Fb	D	Reflects the corresponding button press
Key_HDMI3_Fb	D	Reflects the corresponding button press
Key_HDMI4_Fb	D	Reflects the corresponding button press
Key_Menu_Fb	D	Reflects the corresponding button press
Key_Dec_Fb	D	Reflects the corresponding button press
Key_Inc_Fb	D	Reflects the corresponding button press
Key_Enter_Fb	D	Reflects the corresponding button press
Key_Source_Fb	D	Reflects the corresponding button press
Key_VGA_Fb	D	Reflects the corresponding button press
Key_SVGA_Fb	D	Reflects the corresponding button press
Key_XGA_Fb	D	Reflects the corresponding button press
Key_SXGA_Fb	D	Reflects the corresponding button press
Key_UXGA_Fb	D	Reflects the corresponding button press
Key_1080i60_Fb	D	Reflects the corresponding button press
Key_480p_Fb	D	Reflects the corresponding button press
Key_720p_Fb	D	Reflects the corresponding button press
Key_1080p60_Fb	D	Reflects the corresponding button press
Key_480p_Fb	D	Reflects the corresponding button press
Key_720p_Fb	D	Reflects the corresponding button press
Key_1080p60_Fb	D	Reflects the corresponding button press
Key_Up_Fb	D	Reflects the corresponding button press
Key_Down_Fb	D	Reflects the corresponding button press
Key_Left_Fb	D	Reflects the corresponding button press
Key_Right_Fb	D	Reflects the corresponding button press
Key_Exit_Fb	D	Reflects the corresponding button press
Key_Auto_Fb	D	Reflects the corresponding button press
Key_Reset_Fb	D	Reflects the corresponding button press
Device_Tx_\$	S	Connect to RS232 transmit.

Testing

Notes	
OPS USED FOR TESTING:	AV2: 4.007.005 MC3: 1.005.0015
SIMPL WINDOWS USED FOR TESTING:	4.01.10
DEVICE DB USED FOR TESTING:	46.05.007.00
CRESTRON DB USED FOR TESTING:	35.06.004.00
SAMPLE PROGRAM:	Atlona AT-LINE-PRO4 Basic Demo r0.0.smw
DEVICE FIRMWARE USED FOR TESTING:	V3.18

Revision History

Date	Initials	Comments
04.28.2013	CDR	V0.0 Beta/Initial Release