Crestron Module Documentation

for an

ATLONA

Atlona AT-H2H-44MM
4x4 HDMI Matrix Switcher

Module developed for Atlona by Front Side Solutions.
www.frontsidesolutions.com

General Information:

Notes	
SIMPLWINDOWS NAME:	Atlona AT-H2H-44MM Basic r0.0.umc
CATEGORY:	HDMI Matrix Switch
VERSION:	r0.0
SUMMARY:	This module controls Power, Switching and Presets of the Atlona AT-H2H-44MM HDMI Matrix Switch.
GENERAL NOTES:	This module controls Power, Switching and Presets of the Atlona AT-H2H-44MM HDMI Matrix Switch. This module is SystemBuilder Compliant. NOTE: All Digital inputs are buffered inside the module. May be used to communicate with the switcher via RS-232 as detailed below, or may be used with a TCP/IP Client set on Port 23 (Telnet). To use IP control, login must be disabled on the switch. See the switch's help files for Ethernet setup.
CRESTRON HARDWARE REQUIRED:	ST-COM, C2-COM, C2ENET-1/2
SETUP OF CRESTRON HARDWARE:	Unit Default is RS232 Baud: 115,200 Parity: N Data Bits: 8 Stop Bits: 1. Optional IP control on port 23 (Telnet).

Parameters:

Parameter Name	Notes
Preset Save Hold Time	Time in Seconds that Preset1~8 should be held before the preset is saved.

Control

Signal Name	Type	Notes
Power_On	D	Pulse to turn unit on.
Power_Off	D	Pulse to turn unit off.
Enter(Take)	D	Pulse to send switch commands. May be latched High to allow switches to happen automatically if VideoOut1~16 is changed.
Out1~4	A	Set to value of 0~4 to represent the input to be sent to the output.
One_to_One	D	Pulse to reset all inputs to corresponding outputs (i.e. In1 to Out1, In2 to Out2, etc.).
Out1~4_ARC_On	D	Pulse to turn ARC (Audio Return Channel) on for the indicated output.
Out1~4_ARC_Off	D	Pulse to turn ARC (Audio Return Channel) off for the indicated output.
Preset1~8	D	Pulse to recall matrix presets. Hold for time specified in "Preset Save Hold Time" to save a preset. Presets are stored in the unit, not in the Crestron processor. Presets can be set from the front panel of the unit.

Poll_Enable	D	Pulse for a quick poll of the switcher. If latched, switcher will be polled every X 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, or if the front panel is locked out, polling beyond the initial sync is optional.
Device_Rx_$	S	Connect to RS232 or TCP Client receive.

Feedback

Signal Name	Type	Notes
Power_On_Fb	D	Unit is powered On feedback.
Power_Off_Fb	D	Unit is powered Off feedback.
Out1~16_Fb	A	Feedback representing the input that each output is at.
Out1~4_ARC_On_Fb	D	ARC is On feedback for the indicated output.
Out1~4_ARC_Off_Fb	D	ARC is Off feedback for the indicated output.
Preset1~8_Fb	D	Momentary feedback indicating that a Preset was recalled.
Preset_Saved_Fb	D	Latch High for (1) second to indicate that a preset has been saved.
Device_Tx_$	S	Connect to RS232 or TCP Client 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-H2H-44MM Basic Demo (QM-RMC) r0.0.smw
DEVICE FIRMWARE USED FOR TESTING:	1.1.19

Revision History

Date	Initials	Comments
01.30.2013	CDR	V0.0 Initial Release
