

Crestron Module Documentation

for an

ATLONA

AT-PRO2HD1616M
16x16 HDMI Matrix Switcher

Module developed for Atlona by Front Side Solutions.

www.frontsidesolutions.com

General Information:

| Notes | |
|-----------------------------|--|
| SIMPLWINDOWS NAME: | Atlona AT-PRO2HD1616M Advanced r0.0.umc |
| CATEGORY: | HDMI Matrix Switch |
| VERSION: | r0.0 |
| SUMMARY: | This module controls Power, Switching and Presets of the Atlona AT-PRO2HD1616M HDMI Matrix Switch. It also has advanced Preset functionality to allow more flexibility over the Basic module and adds in the ability to use ComPort Extender Modules which allow device control using the RS-232 ports on the switchers receiver units. |
| GENERAL NOTES: | <p>This module controls Power, Switching and Presets of the Atlona AT-PRO2HD1616M HDMI Matrix Switch. This module has built in queuing for use of expansion ComPort modules.</p> <p>There are (2) variations of the ComPort module bundled with this switcher module; a fully tested and supported 1-way ComPort module, and an experimental 1.5-way ComPort module. Because of the way the RS-232 pass-thru functionality works on the switcher, it is not possible to provide usage of the RS-232 ports as true 2-way ports, however the 1.5-way module works fairly well in smaller systems. Please see the individual modules help files for more details.</p> <p>NOTE: All Digital inputs are buffered inside the module.</p> |
| 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. |

Parameters:

| Parameter Name | Notes |
|-----------------------|--|
| Preset Save Hold Time | Time in Seconds that Preset1~8 should be held before the preset is saved. |
| Rx \$ Span | This parameter is only needed when using the experimental 1.5-way ComPort expansion module. This helps account for latency when strings are returned from the switcher spanning multiple logic waves. Typically this would be set to (1) tick longer than the number of logic waves your return string spans, but as it is experimental, you may have to play with it. |

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. |
| Out1~16 | A | Set to value of 0~16 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.). |
| 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 receive. |
| Preset1~8_Recall | D | Pulse to recall matrix presets. Holding will not save preset, this is recall only |
| Preset1~8_Save | D | Pulse to save matrix presets. Holding is not required. This is to allow programmers to use different methods of saving presets rather than the default Press And Hold functionality. |
| Fm_ComPort_Mod1~16_Tx_\$ | S | Connect to the output of the ComPort expansion modules. |

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. |
| 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 transmit. |
| Preset1~8_Recall_Fb | D | Momentary feedback indicating that a Preset was recalled. |
| Preset1~8_Save_Fb | D | Momentary feedback indicating that a Preset was saved. |
| To_ComPort_Mod1~16_Rx_\$ | S | Connect to the input of the ComPort expansion modules. |

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-PRO2HD1616M Advanced Demo (MC3) r0.0.smw |
| DEVICE FIRMWARE USED FOR TESTING: | 1.1.19 |

Revision History

| Date | Initials | Comments |
|------------|----------|----------------------|
| 12.27.2012 | CDR | V0.0 Initial Release |
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