# Crestron Module Documentation

## for an

## *Atlona AT-CLSO-840*

# General Information

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|---|---|
| Module Name: | Atlona CLSO-840 Module.umc |
| Version: | Rev-01 |
| Summary: | This module controls power, switching, and multiple controllable setting values of the Atlona AT-UHD-CLSO-840. |
| Notes: | |
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# Parameters

| Parameter Name | Description |
|---|---|
| Preset Save Hold Time | Specifies the amount of time in seconds that the Preset* button needs to be held before the preset wll be saved.  This does not affect the Preset_Save function. |
| Vol Hold before Ramp | Specifies the amount of time that Volume buttons need to be held before the Vol Pulse rate becomes active. |
| Vol Pulse Rate | Specifies how fast the volume commands will be sent when the volume button is held. |
| Telnet Username | Specifies the login username.  Only required if login mode has been enabled in the WebGUI of the CLSO-612ED. Default is root. |
| Telnet Password | Specifies the login password.  Only required if login mode has been enabled in the WebGUI of the CLSO-612ED.  Default is Atlona. |

# Control

| Signal Name | Description |
| --- | --- |
| Enable | Hold digital high to enable module. If low the module will not operate. |
| Power_On | Pulse to turn unit on. |
| Power_Off | Pulse to turn unit off. |
| Enter (Take) | Pulse or hold high to activate changes to the video outputs |
| Out1~4 | Set to value of 0 – 8 to represent the input to be sent to the output |
| One_to_One | Pulse to reset all inputs to corresponding outputs (i.e. In1 to Out1, In2 to Out2, etc.) |
| Preset1~5 | 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. |
| Poll_Enable | Pulse for a quick poll of the switcher. If latched, switch will be polled every 5 seconds for changes if the unit is off, and every 60 seconds if the unit is on. 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_$ | Connect to RS232/IP receive. |

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|---|---|
| *Analog_Out1~4* | *Set to value of 0 – 8 to represent the input to be sent to the analog output. Please note that audio mirroring needs to be off for this functionality to work properly.* |
| *HDMI_Out_1~4_Analog/Digital_Audio* | *Pulse to select what the source audio is for the HDMI output.* |
| *VolOut1~4_+/-* | *Pulse to increment/decrement the master volume up or down for the indicated output. If held for the period defined in parameter, will ramp volume up or down at the repeat rate defined in the parameter.* |
| *VolOut1~4_Lvl* | *Use to set volume directly to a level. Supported range is -79 to +15, corresponds directly with the dB level.* |
| *VolOut1~4_Mute_On/Off* | *Pulse to mute/unmute audio for specified output.* |
| *Preset1~5_Recall* | *Pulse to recall matrix presets. Holding will not save presets.* |
| *Preset1~5_Save* | *Pulse to save matrix presets. Holding is not required. This is to allow programmers to use different methods of saving preset rather than the default Press and Hold functionality.* |
| *Fm_ComPort_Mod1~5_Tx_$* | *Allows for feeding comport expansion modules into this module.* |

## Feedback

| Signal Name | Description |
| --- | --- |
| Power_On_Fb | Power On feedback. |
| Power_Off_Fb | Power Off feedback. |
| Out1~4_Fb | Feedback representing the input that each output is at. |
| Preset1~4_Fb | Momentary feedback indicating that a preset was recalled |
| Preset_Saved_Fb | Latch High for 1 second to indicate that a preset has been saved |
| Device_Tx_$ | Connect to RS232/IP transmit |
| Analog_Out1~4_Fb | Feedback representing the input that each analog output is at. |
| HDMI_Out_1~4_Analog/Digital_Audio_Fb | Feedback representing the type of audio input for the output. |
| VolOut1~4_Lvl_Fb | Volume level feedback |
| VolOut1~4_Mute_On/Off_Fb | Feedback representing mute being on/off |
| Preset1~4_Recall_Fb | Momentary feedback indicating that a preset was recalled |
| Preset1~4_Save_Fb | Momentary feedback indicating that a preset was saved. |
| To_ComPort_Mod1~5_Rx_$ | Sends return strings to comport modules. |
| To_Comport_Mod1~5_Enable | Connect to comport module to enable the comport module when the system is available. |

## Revision History

| Date | Initials | Comments |
| --- | --- | --- |
| Feb 01 2017 | MDS | Initial Release |
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