IP/SERIAL DRIVER FOR ATLONA AT-OPUS-810M

This driver allows you to control an Atlona HDMI AT-OPUS-810M 4K HDR HDMI to HDBaseT Matrix Switcher (8x10) from Control4.

The OPUS Matrix Switcher has two independent circuits: one to switch input HDMI (Video and Audio) to output HDBaseT/HDMI, and the other circuit to switch Audio from a variety of sources, including de-embedded audio from the HDMI inputs (must be 2CH PCM) to Analog and TOSLINK outputs which are always fed simultaneously.

Selecting WATCH in Control4 causes switching on the first (HDMI to HDBaseT/HDMI) circuit. Furthermore, if the property 'Audio Output Zone Control' is set to 'Audio Follows Video', WATCH also causes the de-embedded 2CH PCM audio from the selected HDMI Input to be switched to the selected Audio Outputs (on the second circuit). If the property is set to 'Independent Audio and Video', the second circuit (Audio) is not used or changed by WATCH.

Selecting LISTEN in Control4 causes switching to occur on the second circuit (Audio) only, UNLESS the Endpoints require the audio from an HDMI Input to be sent via an HDBaseT output to the amplifier device.

INSTALLATION INSTRUCTIONS

- Ensure the Atlona Switcher firmware is at the most recent level.

- This device supports SDDP discovery and automatic driver installation (IP only). You may also want to set the Atlona Switcher to a static IP address or ensure it always receives the same IP address from the DHCP server via a MAC-based reservation.

- When using Serial control (by itself or as a backup to IP control), make the appropriate Serial Switch Control connection. If both IP and Serial are connected and IP fails, the driver will use Serial and revert back to IP when restored. For Serial control, the driver only supports the baud rate of 115200. Make sure your matrix baud rate is set to match.

- Connect the HDMI Inputs, the HDBaseT and HDMI Outputs, the Analog and TOSLINK Inputs and Outputs as well as Room Controls as appropriate.

- Adjust the 'Power Off when Unused', 'On Room Off' and 'Audio Output Zone Control' properties as required. See below for descriptions.

- Connect and use the RS-232 connections as required. Two-way communications are supported allowing a device driver to fully communicate with its RS-232-controlled display device. You need to physically connect the RS-232 RX/TX/Gnd of the OPUS HDBaseT Receiver to the display device.

PROPERTIES

− **Driver Version** shows the version of this driver.

− **Driver Information** shows various status messages about the driver.

− **Debug Mode** turns Debug Mode On or Off (with output to the Lua Output window).

− **Debug Duration in Minutes** sets the duration of Debug On.

− **Switcher Available via IP** shows if the Matrix Switcher is connected to the driver using IP.

− **Switcher Model** shows the model of the actual device connected to the driver.

− **Power Off when Unused** determines what the Switcher will do when Control4 determines that none of its outputs are in use. When set to Yes, the driver will power the Switcher Off when all its Rooms are Off. When powering back On, the driver will insert a 20-second delay before sending a switching command.

− **On Room Off** allows you to specify if the driver performs a special operation when a room is turned Off. Other than 'Do nothing', the choices are to 'Disable the HDBaseT' and/or 'Mute the Analog Audio Output'. NOTE: Disabling the HDBaseT output could cause EDID issues with some displays.

− **Audio Output Zone Control** allows you to specify if a WATCH command will also cause the de-embedded audio (must be 2CH PCM) from the selected HDMI input to be switched to the selected output's Analog/TOSLINK audio output. This is referred as 'Audio Follows Video'. Otherwise, no separate audio is switched by the WATCH command.

− **HDBaseT Port x RS-232 Baud Rate and Parity** allow you to specify the baud rate and parity of the corresponding HDBaseT RS-232 connection. Specify as Baud,Parity where Baud may be one of 9600, 19200, 38400, 56000, 57600 or 115200. Parity may be 0 to 4 (0: None, 1: Odd, 2: Even, 3:Mark, 4:Space). Example: 9600,0 for 9600 bauds, no parity.

USAGE NOTES

• **IMPORTANT**: when the Audio Endpoints for a given room are connected to a device (TV or other) serviced by one of the HDBaseT/HDMI outputs of this switch, any LISTEN operation for that room will cause a VIDEO switch, as this is the only way to forward the requested audio. Alternatively, use a dedicated audio path (analog or optical) from the switch to the room and adjust the Audio Endpoints.

• Use the Device Specific Commands 'Set to Specific Input' and 'Set Specific Audio Input' to change input (video or audio) in Programming.

• Volume and Mute relate only to the Analog Audio Outputs, when used as End-points (TOSLINK outputs are always at line level). If active, Muting is removed when the Volume is pulsed or ramped up/down.

• Audio Return Channel (ARC) is available to the Audio switcher as an input source in the following situations:

- An optical audio signal is fed to the Audio In connector in the back of the Opus HDBaseT receiver unit (note that this HDBaseT receiver unit does not accept ARC via its HDMI connector).

- One of the Switcher's Output HDMI connectors is connected to a device which properly feeds back an ARC signal. If this is done via an extender pair, it too needs to support ARC.

- When using Volume in the Control4 environment, always use the Control4 scale of 0-100, not the native Atlona scale. The driver will convert properly.

- The OPUS Matrix Switch is intended to feed audio to an amplifier or a receiver. You may experience switching issues if you feed the Audio outputs to another audio matrix switch.

SUPPORT

For support on this driver please go to http://www.atlona.com/product-support/. If required, give a detailed description of the problem and also include the version number of the driver and the version of Control4 OS that you are using.

CHANGELOG

1.0.0 October 4, 2018   Initial Release