

Partner: SnapAV
Model: Episode
Device Type: Amplifiers



GENERAL INFORMATION

SIMPLWINDOWS NAME:	SnapAV Episode v1.0 Demo
CATEGORY:	Amplifiers
VERSION:	1.0
SUMMARY:	This project includes two modules. One for HTTP communication and the other for Serial Communication to the SnapAV Episode Amplifiers.
GENERAL NOTES:	<p>These modules were designed to support up to and including a 16 Channel Episode Amplifier. If using a smaller model, please comment out the unused signals.</p> <p>Some of the controls and feedback signals may only apply to one of the two modules. Once the means of communication is determined, the correct module can be added and the controls and feedback signals for that module will then become clear.</p>
CRESTRON HARDWARE REQUIRED:	3 series processor is required.
SETUP OF CRESTRON HARDWARE:	<p>Serial Cable if using RS232 communication. The default Serial Port Configuration for the Serial Control Interface is:</p> <p>Baud rate: 9600 Data Bits: 8 bits Parity: None Stop Bits: One</p> <p>IP Address if using HTTP communication.</p>
VENDOR FIRMWARE:	1.0.161.30
VENDOR SETUP:	<p>Serial Cable if using RS232 communication.</p> <p>Network Cable if using HTTP communication.</p>
CABLE DIAGRAM:	<p>SnapAV Episode Amplifier PINOUT:</p> <p>AMPLIFIER ----- CONTROLLER</p> <p>TX - Transmit Data ----- Receive Data -- RX RX - Receive Data ----- Transmit Data - TX G - Ground ----- Ground - G</p>

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CONTROL:

CONNECT	D	Set HIGH to enable module, LOW to disable.
POWER_ON / POWER OFF	D	Pulse HIGH to power on or power off.
SET_INPUT_D[n]	D	Pulse HIGH to set the input portion of an audio switch where n is the input number.
SET_OUTPUT_D[n]	D	Pulse HIGH to set the output portion of an audio switch where n is the output number.
INPUT_GAIN_UP[n]	D	Pulse HIGH to increase the input gain level 1dB where n is the input number.
INPUT_GAIN_DOWN[n]	D	Pulse HIGH to decrease the input gain level -1dB where n is the input number.
OUTPUT_VOLUME_UP[n]	D	Pulse HIGH to increase the output volume 1 percent where n is the output number.
OUTPUT_VOLUME_DOWN[n]	D	Pulse HIGH to decrease the output volume 1 percent where n is the output number.
OUTPUT_MUTE_ON[n]	D	Pulse HIGH to set the output mute to on where n is the output number.
OUTPUT_MUTE_OFF[n]	D	Pulse HIGH to set the output mute to off where n is the output number.
RX_SERIAL_DATA	S	Receives serial data.
SET_INPUT_A	A	Set valid range [1 to Max Inputs] to set the input portion of an audio switch.
SET_OUTPUT_A	A	Set valid range [1 to Max Outputs] to set the output portion of an audio switch.
INPUT_GAIN_SET_LEVEL[n]	A	Set valid range [0 to -12dB] to set the input gain level where n is the input number. Note that the range is presented in positive scale [0 to 12] due to the limitation of the analog signal.
OUTPUT_VOLUME_SET_LEVEL[n]	A	Set valid range [0 to 100] to set the output volume level where n is the output

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number.

FEEDBACK:

POWER_STATUS	D	Sets HIGH if power is on, LOW if power is off.
OUTPUT_MUTE[n]	D	Sets HIGH when muted, LOW when unmuted where n is the output number.
TX_SERIAL_COMMAND	S	Sends out serial data.
AMP_NAME, AMP_MODEL, AMP_MAC, AMP_FIRMWARE	S	Sets values of the current amp information when the module is first initialized.
CURRENT_SELECTED_INPUT[n]	A	Sets number of the currently selected input for an output where n is the output number.
INPUT_GAIN_VOLUME[n]	A	Sets number with the current level for input gain where n is the input number.
OUTPUT_VOLUME[n]	A	Sets number with the current level for output volume where n is the output number.

PARAMETER:

IP_ADDRESS	S	Used when HTTP communication is desired. IP Format: 192.168.24.1
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TESTING:

OPS USED FOR TESTING: RMC3 1.010.0060

SIMPL WINDOWS USED FOR TESTING: 4.02.65

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DEVICE DB USED FOR TESTING:	65.05.003.00
CRES DB USED FOR TESTING:	51.05.007.00
SYMBOL LIBRARY USED FOR TESTING:	944
SAMPLE PROGRAM:	SnapAV Episode Amplifiers v1.0 Demo
REVISION HISTORY:	V1.0 – Original Release