Entertainment TV Mirrors

Communication Parameters

IP Version	IPv4, IPv6
Transport Layer	TCP
Port	4453

COMPATIBLE SKUS:
55 ENT3
65 ENT3

Getting connected

1. Insert an ethernet cable into the LAN port on the television and connect the other end to your home network.
2. Navigate the on-screen menu on the television to the Ethernet menu, located at **Menu->Link->Ethernet**
3. Change Type to Static if you plan to assign an IP address to the unit, otherwise DHCP is enabled by default. For static IP installations Enter the IP address, Prefix Length, Default Gateway, Preferred DNS, Alternate DNS.
4. Scroll down to Connect in the Ethernet menu and press 'Enter' to connect to the network.
5. Navigate the on-screen menu to the System Information menu, located at **Menu->System->System information**. In the system information menu, the IP address for the device is displayed.

Communication

The Transmission of data from the Controller (Computer or A/V Controller) has the following structure [header][command][separtor][data][termination]. The individual segments are defined as follows:

[header] – ASCII %2
[command] – 4 character ASCII string or hexadecimal equivalent
[separator] – ASCII space
[data] – 1-6 character ASCII string
[termination] – ASCII carriage return denoted (CR)

Responses from the television will have the following structure [header][command][separator][data][termination] which are defined as follows:

[header] – ASCII %2
[command] – 4 character ASCII string or hexadecimal equivalent
[separator] – ASCII =
[data] – 1-6 character ASCII string
[termination] – ASCII carriage return denoted (CR)

Contact Séura Technical Support for further assistance at 800-957-3872 or techsupport@seura.com

Example Commands

Change television to HDMI1 input

Send
ASCII %2INPT 4(CR)
HEX 25 32 49 4E 50 54 20 34 0D

Receive
ASCII %2INPT=OK(CR)
HEX 25 32 49 4E 50 54 3D 4F 4B 0D

Some commands will have multiple characters for the [data] segment, multiple digits are numeric and can be converted to hex by adding 0x30 to the numberic value

ASCII %2CHAN $\mathbf{X_1X_2X_3}$-$\mathbf{X_4X_5}$(CR)
HEX 25 32 43 48 41 4E 20 3$\mathbf{X_1}$ 3$\mathbf{X_2}$ 3$\mathbf{X_3}$ 2D 3$\mathbf{X_4}$ 3$\mathbf{X_5}$ 0D

ASCII %2CHAN **123-45**(CR)
HEX 25 32 43 48 41 4E 20 3**1** 3**2** 3**3** 2D 3**4** 3**5** 0D

In addition, unused characters can be truncated to reduce the length of the send string

ASCII %2CHAN **2-1**(CR)
HEX 25 32 43 48 41 4E 20 3**2** 2D 3**1** 0D

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POWER

	COMMAND	RESPONSE
POWER ON	%2POWR 1(CR) **25 32 50 4F 57 52 20 31 0D**	
POWER OFF	%2POWR 0(CR) **25 32 50 4F 57 52 20 30 0D**	
POWER QUERY	%2POWR ?(CR) **25 32 50 4F 57 52 20 3F 0D**	%2POWR=X(CR)* **25 32 50 4F 57 52 3D 3X 0D**

*X is a number 0-1 representing the current power state; 0=power off, 1=power on

INPUTS

	COMMAND	RESPONSE
TV	%2INPT 1(CR) **25 32 49 4E 50 54 20 31 0D**	%2INPT=OK(CR) **25 32 49 4E 50 54 3D 4F 4B 0D**
COMPONENT	%2INPT 3(CR) **25 32 49 4E 50 54 20 33 0D**	%2INPT=OK(CR) **25 32 49 4E 50 54 3D 4F 4B 0D**
HDMI1	%2INPT 4(CR) **25 32 49 4E 50 54 20 34 0D**	%2INPT=OK(CR) **25 32 49 4E 50 54 3D 4F 4B 0D**
HDMI2	%2INPT 5(CR) **25 32 49 4E 50 54 20 35 0D**	%2INPT=OK(CR) **25 32 49 4E 50 54 3D 4F 4B 0D**
HDMI3	%2INPT 6(CR) **25 32 49 4E 50 54 20 36 0D**	%2INPT=OK(CR) **25 32 49 4E 50 54 3D 4F 4B 0D**
PC	%2INPT 7(CR) **25 32 49 4E 50 54 20 37 0D**	%2INPT=OK(CR) **25 32 49 4E 50 54 3D 4F 4B 0D**
USB	%2INPT 8(CR) **25 32 49 4E 50 54 20 38 0D**	%2INPT=OK(CR) **25 32 49 4E 50 54 3D 4F 4B 0D**
INPUT KEY	%2INPT -(CR) **25 32 49 4E 50 54 20 2D 0D**	
QUERY	%2INPT ?(CR) **25 32 49 4E 50 54 20 3F 0D**	%2INPT=X(CR)* **25 32 49 4E 50 54 3D 3X 0D**

*X is a number 0-9

VOLUME

	COMMAND	RESPONSE
SET VOLUME	%2VOLU $X_1X_2X_3$(CR)[1] **25 32 56 4F 4C 41 20 3X_1 3X_2 3X_3 0D**	%2VOLU=OK(CR) **25 32 56 4F 4C 41 3D 4F 4B 0D**
VOLUME UP	%2VOLA 1(CR) **25 32 56 4F 4C 41 20 31 0D**	
VOLUME DOWN	%2VOLA 0(CR) **25 32 56 4F 4C 41 20 30 0D**	
VOLUME QUERY	%2VOLU ?(CR) **25 32 56 4F 4C 41 20 3F 0D**	%2VOLU=$X_1X_2X_3$(CR)* **25 32 56 4F 4C 41 3D 3X_1 3X_2 3X_3 0D**

*X is a number 0-9

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CHANNEL

	COMMAND	RESPONSE
SET CHANNEL	%2CHAN $X_1X_2X_3$-X_4X_5(CR) **25 32 43 48 41 4E 20 3X_1 3X_2 3X_3 2D 3X_4 3X_5 0D**	%2CHAN=OK(CR)* **25 32 43 48 41 4E 3D 4F 4B 0D**
CHANNEL UP	%2CHNA 1(CR) **25 32 43 48 4E 41 20 31 0D**	
CHANNEL DOWN	%2CHNA 0(CR) **25 32 43 48 4E 41 20 30 0D**	
PREVIOUS CHANNEL	%2CHRT 1(CR) **25 32 43 48 52 54 20 31 0D**	
CHANNEL QUERY	%2CHAN ?(CR) **25 32 43 48 41 4E 20 3F 0D**	%2CHAN $X_1X_2X_3$-X_4X_5(CR)* **25 32 43 48 41 4E 3D 3X_1 3X_2 3X_3 2D 3X_4 3X_5 0D**

*X is a number 0-9

REMOTE KEYS

	COMMAND	RESPONSE
Menu	%2MENU 0(CR) **25 32 4D 45 4E 55 20 30 0D**	
UP	%2ARRO 0(CR) **25 32 41 52 52 4F 20 30 0D**	
DOWN	%2ARRO 1(CR) **25 32 41 52 52 4F 20 31 0D**	
LEFT	%2ARRO 2(CR) **25 32 41 52 52 4F 20 32 0D**	
RIGHT	%2ARRO 3(CR) **25 32 41 52 52 4F 20 33 0D**	
ENTER	%2ENTR 1(CR) **25 32 45 4E 54 52 20 31 0D**	
BACK	%2BACK 1(CR) **25 32 42 41 43 4B 20 31 0D**	
EXIT	%2EXIT 1(CR) **25 32 45 58 49 54 20 31 0d**	
MUTE	%2MUTE 1(CR) **25 32 4D 55 54 45 20 31 0D**	
SLEEP	%2SLEP X(CR)* **25 32 53 4C 45 50 20 3X 0D**	
CLOSED CAPTIONING	%2CLCP 1(CR) **25 32 43 4C 43 50 20 31 0D**	
ASPECT RATIO	%2ASPE 1(CR) **25 32 41 53 50 45 20 31 0D**	
INFO	%2INFO 1(CR) **25 32 49 4E 46 4F 20 31 0D**	
NUMBER	%2NUMB X(CR)** **25 32 4E 55 4D 42 20 3X 0D**	

*X is a number 0-4; 0=OFF, 1=30 minutes, 2=60 minutes, 3 = 90 minutes, 4= 120 minutes, 5=180 minutes

**X is a number 0-9

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