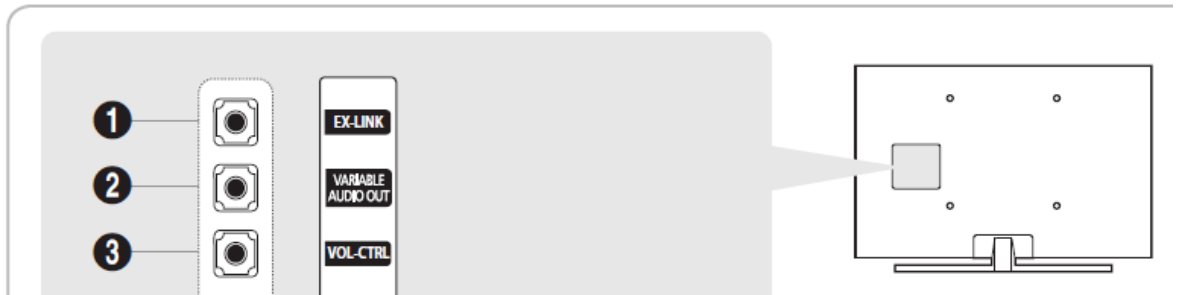


HDMI Over IP-PRO DSX RS-232 controls -Samsung TV with EXLink

Revision: 1.2
Date : 8/29/18

The Octava PRO DSX HDMI Over IP system enables routing of RS-232 control signals for enhanced system integration.



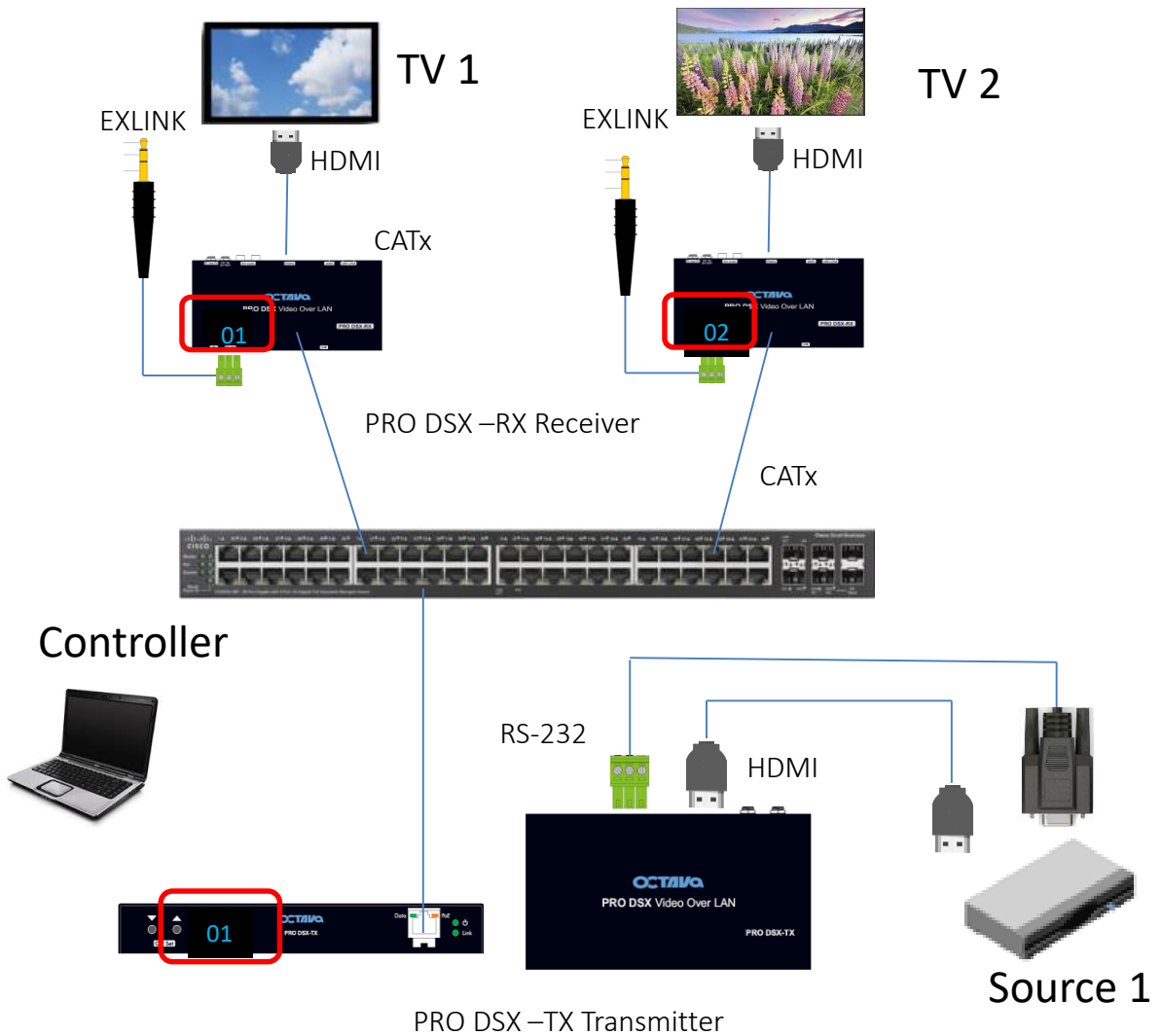
The ExLink port allows serial control of the Samsung TV. For example, turn on/off , changed channels and etc.

The ExLink cable has a 3.5mm jack (like a audio headphone cable) on one side and on the other side is an RS-232 interface.



RS-232 TYPE 2 Guest Mode

For example, if you wish to send RS-232 commands to TV 1, then you will only need to Telnet the RS-232 to the PRO DSX-RX connected to TV1



1. Configure the PRO DSX-RX Serial IP to Type 2 GUEST Mode

Use browser to access the PRO DSX which you wish to send RS-232 commands to

The screenshot shows a web browser window with the address bar displaying `169.254.3.1/octava_admin.html`. The navigation menu includes 'System', 'Video Wall', 'Network', and 'Functions', with 'Functions' highlighted in green. Below the menu, the 'Video over IP' section has two checked options: 'Enable Video over IP' and 'Enable Video Wall'. The 'Serial over IP' section is expanded, showing a checked 'Enable Serial over IP' option. Under 'Operation Mode', 'Type 2 (Recommended. Dumb redirection.)' is selected. The 'Baudrate Setting for Type 2:' section includes dropdown menus for Baudrate (9600), Data bits (8), Parity (None), and Stop bits (1). An 'Apply' button is located at the bottom right. Red annotations with arrows point to the 'Functions' tab, 'Enable Serial over IP' checkbox, 'Type 2 (Recommended...)' radio button, the Baudrate settings area, and the 'Apply' button.

Web Setup x

← → ↻ 169.254.3.1/octava_admin.html

System Video Wall Network **Functions**

Video over IP

- Enable Video over IP
- Enable Video Wall

Serial over IP

- Enable Serial over IP

Operation Mode:

- Type 1 (Need extra control instruction. For advanced usage.)
- Type 2 (Recommended. Dumb redirection.)
- Type 1 guest mode
- Type 2 guest mode

Baudrate Setting for Type 2:

Baudrate: 9600

Data bits: 8

Parity: None

Stop bits: 1

Apply

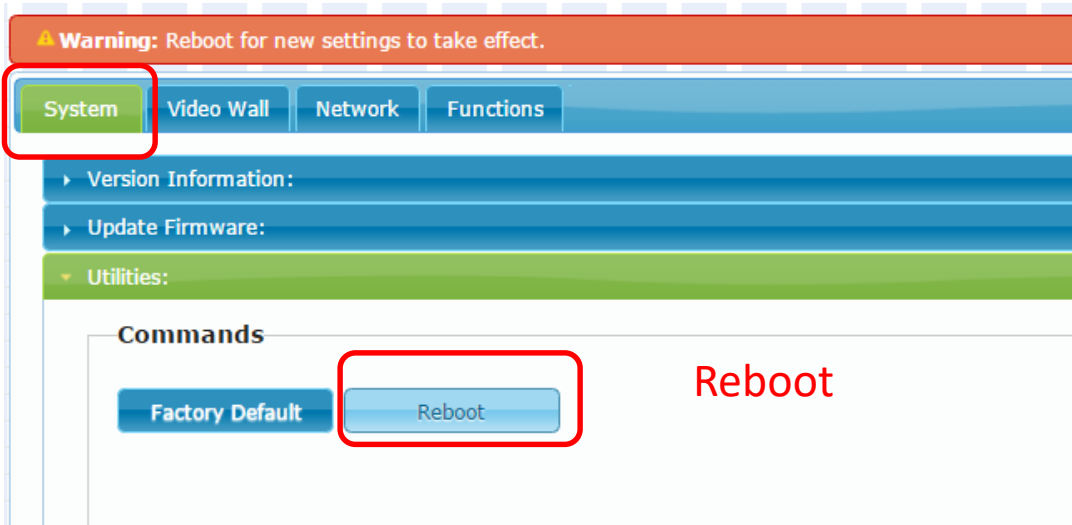
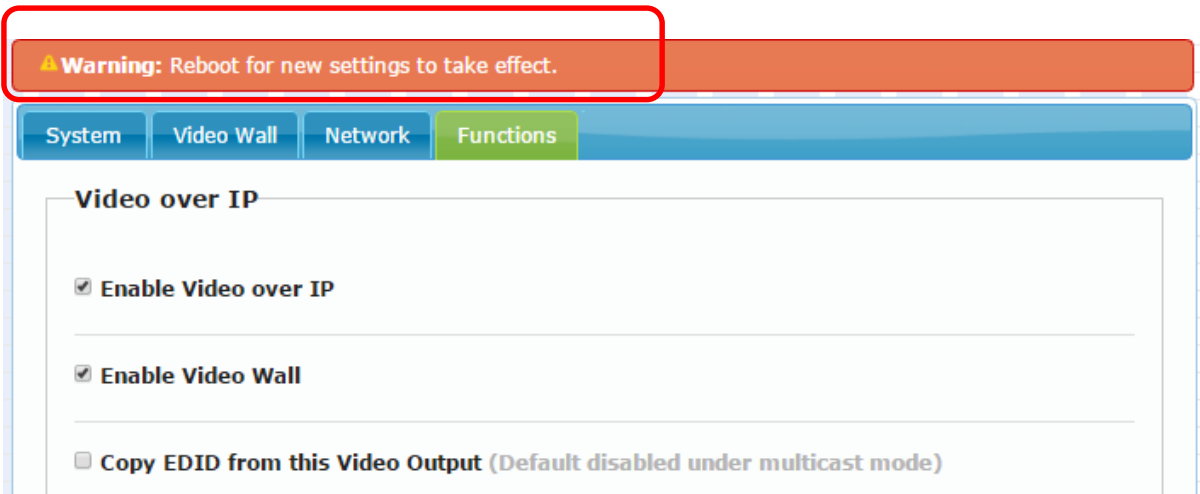
Enable Serial Over IP

Select Type 2

Set the Baud rate settings per requirements.

2. Apply and Reboot

You will need to Reboot to save the TYPE 2 Guest Mode Settings



To send control command to the Samsung TV.

1. Telnet to the PRO DSX-RX attached to the Samsung TV you wish to control. You must enter the correct IP Address and use PORT 6752.

Example:

IP address of PRO DSX-RX (For example, 172.31.3.1)
 PORT = 6752

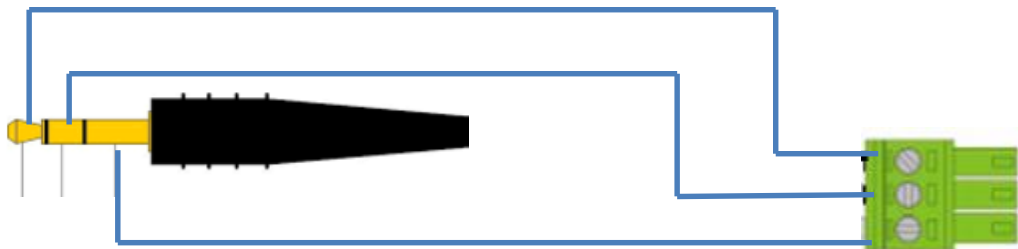
2. Send the HEX command to the SAMSUNG TV that you wish.

	HEX Command Example	
Power ON	\x08\x22\x00\x00\x00\x02\xD4	
Power OFF	\x08\x22\x00\x00\x00\x01\xD5	
Volume UP	\x08\x22\x01\x00\x01\x00\xD4	
Volume Down	\x08\x22\x01\x00\x02\x00\xD3	
HDMI IN 1	\x08\x22\x0A\x00\x05\x00\xC7	
HDMI IN 2	\x08\x22\x0A\x00\x05\x01\xC6	
HDMI IN 3	\x08\x22\x0A\x00\x05\x02\xC5	
HDMI IN 4	\x08\x22\x0A\x00\x05\x03\xC4	

The Cabling used in the above example is shown below.

The ExLink cable has a 3.5mm jack (stereo)on one side and on the other side is an Phoenix Style (green)RS-232 interface.

You may use any 3.5 mm stereo cable and make your own interface cable as shown below.



EX LINK

PRO DSX-RX RS-232

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