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DSCV2-70-TX-US

4K UHD In-Wall Transmitter with USB Host and CEC Triggering

API COMMANDS

January 3, 2023

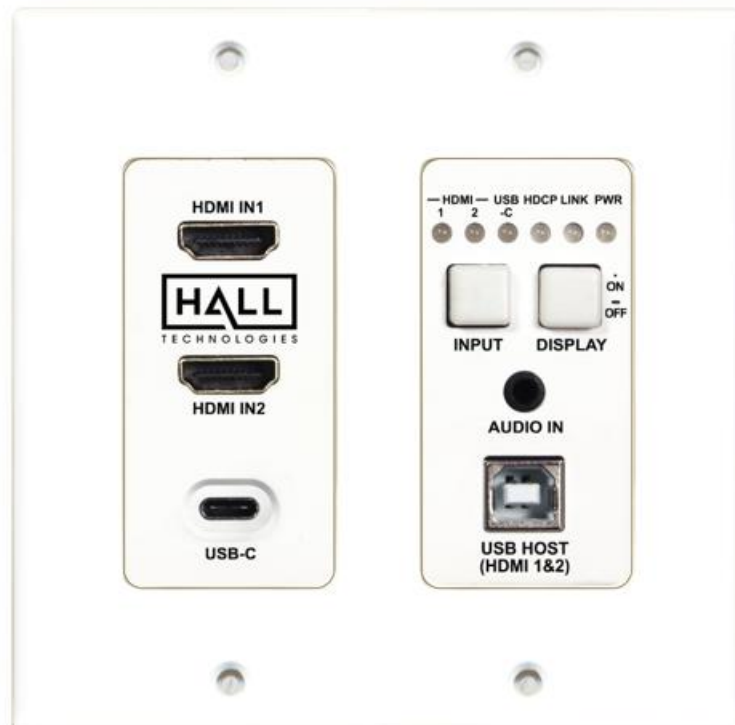


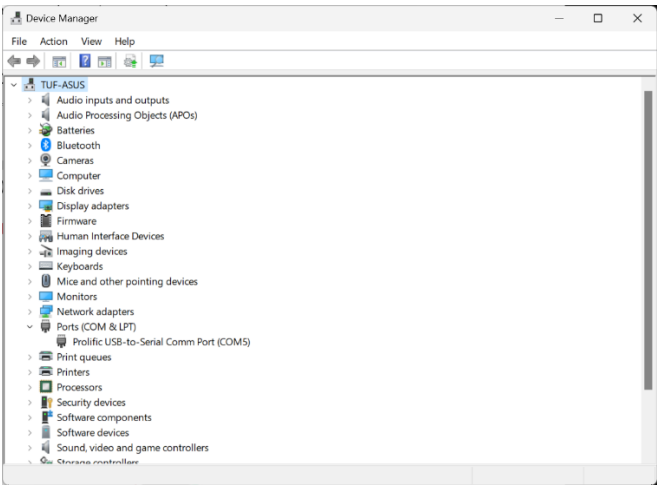
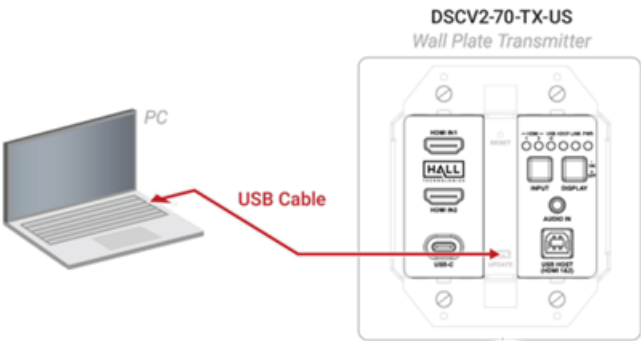
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Connection Settings

LAPTOP CONNECTIONS

Advanced users can connect their laptop through terminal programs such as PUTTY using a USB Micro cable connected to the front or a USB to serial cable connected to the Phoenix connectors on the back of the TX or RX. You might need to go to Start > Device Manager > Ports to find the COM port of your PC.



RS232 DEFAULT SETTING

Parameters	Value
Baud Rate	115200 bps
Data Bits	8 bits
Parity	None
Stop Bits	1 bit
Flow Control	None

API Commands

Example For Setting the RS-232 Serial Commands for Display Power:

Command	Return	Description
SET UART_STR poweron 1 Hello<CR><LF>	UART_STR poweron 1 Hello<CR><LF>	This is the command to set the RS-232 power on command that is triggered by the front button press or source detect. “poweron” is the state of the command to set. “1” is to define the sequence of the commands. Multiple commands can be set up but usually only 1 will be used. “Hello” is the actual power on command being sent to the display or projector. “<CR><LF>” Denotes a carriage return or a line feed; all commands must end with a CR or LF. The Hex values are 0D and 0A.
SET UART_STR poweroff 1 Goodbye<CR><LF>	UART_STR poweroff 1 Goodbye<CR><LF>	This is the command to set the RS-232 power off command that is triggered by the front button press and hold (button must be pressed for 5 seconds) or source detect. “poweroff” is the state of the command to set. “1” is to define the sequence of the commands. Multiple commands can be set up but usually only 1 will be used. “Goodbye” is the actual power off command being sent to the display or projector. “<CR><LF>” Denotes a carriage return or a line feed; all commands must end with a CR or LF. The Hex values are 0D and 0A.

COMMANDS

IDX	Command	Parameters	Description
1	GET UART_B	-	Gets the UART baud rate Command: GET UART_B <CR><LF> Return: UART_B 9600<CR><LF> Description: Get UART baudrate, and the result is 9600
2	SET UART_B prm	prm = {9600, 19200, 38400, 57600, 115200} – default is 115200	Sets the UART baud rate Command: SET UART_B 9600<CR><LF> Return: UART_B 9600<CR><LF> Description: Set UART baudrate as 9600.
3	GET UART_E prm	prm = {null, CR, LF, CRLF}	Gets the UART ending character Command: GET UART_E <CR><LF> Return: UART_E cr<CR><LF> Description: Get UART ending character, and the result is cr

IDX	Command	Parameters	Description
4	SET UART_E prm	prm = {null, CR, LF, CRLF} – default is CRLF	Sets the UART ending character Command: SET UART_E cr<CR><LF> Return: UART_E cr<CR><LF> Description: Set UART ending character as cr.
5	SET UART_STR prm1 prm2 prm3	prm1 = {poweron, poweroff} – refers to which command string is being configured. prm2 = {1 OR 2 OR 3 OR 4 OR 5} – refers to the sequence of the power command. Multiple commands can be set for on or off. Should be 1 is it is the only command to be sent. prm3 = {xxxxxxxx} – refers to the power on/off command for the display (max length is 64 characters). This is the actual command that needs to be sent to the display or projector.	Sets the UART (RS-232 Serial) command for powering on and off the display in string form. This will be sent when Auto power is enabled (it is by default) or when the display button on the Discovery 2 TX is pressed (for power on) or pressed and held (for power off) Command: SET UART_STR poweron 1 PWR1<CR><LF> Return: UART_STR poweron 1 PWR1<CR><LF> Description: Sets the UART command for powering on the display in string form as “PWR1”, and set this command to be the first to be sent (or only if it is the only power on command configured).

IDX	Command	Parameters	Description
6	GET UART_STR prm1 prm2	prm1 = {poweron, poweroff} } – refers to which command string has been configured. prm2 = {1 OR 2 OR 3 OR 4 OR 5} – refers to the sequence of the power command.	Gets the UART (RS-232 Serial) command for powering on the display Command: GET UART_STR poweron 1 <CR><LF> Return: UART_STR poweron 1 xxxx<CR><LF> Description: Get the UART command at first place for powering on the display.
7	SET UART_HEX prm1 prm2 prm3	prm1 = {poweron, poweroff} – refers to which command string is being configured. prm2 = {1 OR 2 OR 3 OR 4 OR 5} – refers to the sequence of the power command. Multiple commands can be set for on or off. Should be 1 is it is the only command to be sent. prm3 = {xxxxxxxx} – refers to the power on/off command for the display (max length is 64 characters). This is the actual command that needs to be sent to the display or projector.	Sets the UART (RS-232 Serial) command for powering on and off the display in string form. This will be sent when Auto power is enabled (it is by default) or when the display button on the Discovery 2 TX is pressed (for power on) or pressed and held (for power off) Command: SET UART_HEX poweron 1 0A 0B 0C 0D<CR><LF> Return: UART_HEX poweron 1 0A 0B 0C 0D<CR><LF> Description: Sets the UART command for powering on the display in Hex string form as “0A 0B 0C 0D”, and set this command to be the first to be sent (or only if it is the only power on command configured).

IDX	Command	Parameters	Description
8	RESET	-	Factory reset
9	HELP	-	Shows all RS232 serial commands
10	GET SW_VERSION	-	Shows the software version
11	UPG prm	{xxx}	Upgrades the module
12	SET AUTOCEC_D prm	{1, 2, 3, ..., 30} – units are minutes; default waiting time is 2 minutes; max 30	Sets the CEC power delay time
13	GET AUTOCEC_D	-	Shows the CEC power delay time
14	SET AUTOCEC_M prm	{on, off} – default is on	Sets the auto CEC
15	GET AUTOCEC_M	-	Shows the auto CEC setting
16	SET AUTOUART_D prm	{3, 4, 5, ..., 60} – units are minutes; default waiting time is 3 minutes; max 60	Sets the UART power delay time for the display. When no active signal is present the display will automatically be turned off after specified wait time.
17	GET AUTOUART_D	-	Shows the UART power delay time
18	SET AUTOUART_M prm	{on, off} – default is on	Sets the UART auto mode
19	GET AUTOUART_M	-	Shows the UART auto mode setting
20	SET SW in	{hdmi1, hdmi2, usbc}	Sets the input source
21	GET SW	-	Shows the selected source



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