



ReThink

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RAV-EX-U40-Tx

RS-232 Control Commands

RAV-EX-U40-Tx

5K USB-C and USB 3.2 Transmitter 40m

Osiris family of extenders



RS-232 Connection

Baud rate: 115,200 (Fixed)

Data bits: 8

Stop bits: 1

Parity: None

Flow control: None

RS-232 Commands

ASCII Commands				
Command	Function	Example	Feedback	Default
?	Get the list of all commands	?		
help	Get the list of all commands	help		
get version	Get all firmware version	get version	TX BOOT: V1.01.01 TX FW: V1.00.01 RX FW: V1.00.01 SUB MCU1: V1.00.00.01 SUB MCU2: V1.00.17	
reboot	Reboot the device	reboot	Reboot... System Initializing... Initialization Finished! TX FW v1.0.0 RX FW v1.0.0	
reset	Reset to factory defaults	reset	Sure to RESET to default settings? Type "Yes" after next prompt to confirm...	

Command	Function	Example	Feedback	Default
status	Get system status	status	Please refer to the note at the end of the list.	
set tx input x hdcp y	Set tx input x (x=0~1) HDCP to y (y=0~2) x=0:All Inputs, x=1:Input 1, y=0:HDCP off, y=1:HDCP 1.4, y=2:HDCP 2.3	set tx input 0 hdcp 2 set tx input 1 hdcp 0	TX all input HDCP 2.3 TX input 1 HDCP off	HDCP 2.3
get tx input x hdcp	Get TX input x (x=0~1) HDCP status	get tx input 1 hdcp	TX input 1 HDCP 2.3	
get tx input x connected	Get TX input x (x=0~1) cable connected status x=0:All Inputs x=1:Input 1	get tx input 1 connected	TX input 1 connected TX input 1 disconnected	
get tx input x signal	Get TX input x (x=0~1) signal status	get tx input 1 signal	TX input 1 3840x2160p 60Hz YUV 4:4:4 8bit TX input 1 no signal	

Command	Function	Example	Feedback	Default
set tx input x edid y	Set TX input (x=0~1) EDID to y (01~23) x=0:All inputs x=1:Input 1 y=01:Copy EDID from RX output(default) y=02:1080p60,2CH PCM y=03:1080p60,5.1CH DTS/DOLBY y=04:1080p60,7.1CH DTS/DOLBY/HD y=05:4K60,2CH PCM y=06:4K60,5.1CH DTS/DOLBY y=07:4K60,7.1CH DTS/DOLBY/HD y=08:5K60,2CH PCM y=09:5K60,5.1CH DTS/DOLBY y=10:5K60,7.1CH DTS/DOLBY/HD y=11:4K30,2CH PCM y=12:4K30,5.1CH DTS/DOLBY y=13:4K30,7.1CH DTS/DOLBY/HD y=14:720p60,2CH PCM y=15:1920x1200p60,2CH PCM y=16:1680x1050p60,2CH PCM y=17:1600x1200p60,2CH PCM y=18:1440x900p60,2CH PCM y=19:1360x768p60,2CH PCM y=20:1280x1024p60,2CH PCM y=21:1024x768p60,2CH PCM y=22:User Defined 1 y=23:User Defined 2	set tx input 1 edid 1	TX input 1 EDID 01:auto EDID (default)	1

Command	Function	Example	Feedback	Default
get tx input x edid	Get TX input x (x=0~1) EDID	get tx input 1 edid	TX input 1 EDID 01: Auto EDID (default)	
get tx input x edid data	Get TX input x (x=0~1) EDID data	get tx input 1 edid data	TX input 1 EDID <00 FF FF FF....>	
set user edid x <y>	Set user defined EDID x (x=0~2) to y x=0: User Defined 1 and User Defined 2 x=1: User Defined 1 x=2: User Defined 2 y=00 FF FF FF (y is 256 bytes EDID data)	set user edid 1 <00 FF FF FF>	User Defined 1 EDID is loaded	
get user edid x	Get user defined EDID x (x=0~2) data x=0: User Defined 1 and User Defined 2 x=1: User Defined 1 x=2: User Defined 2	get user edid 1	<00 FF FF FF....>	
get tx usb connected	Get TX USB cable connected status	get tx usb connected	TX USB connected TX USB disconnected	1
set hdbt update	Set SERVICE port to HDBT UART for FW update	set hdbt update	HDBT update...	

Note: The feedback of the command of “status” is as follow.

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Status Info 5K USB-C and USB 3.2 Extender over CAT TX FW v1.0.0

TX	Cable	Signal	HDCP	EDID
Input	Connected	3840x2160p60Hz YUV 4:4:4 8bit	HDCP 2.3	01_Auto EDID

TX_USB	Cable
TX_01	Connected

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