



ReThink

There's a better way.

RAV-SW-2x1U2H100-TxRx
RS-232 Control Commands

RAV-SW-2x1U2H100-TxRx 2x1 USB-C Auto Switcher over HDBaseT Dual Screen

Kratos family of switchers



RS-232 Connection

Baud rate: 115,200 (Fixed)

Data bits: 8

Stop bits: 1

Parity: None

Flow control: None

The product supports API commands control.

Connect the SERVICE or RS-232 port of the product to a PC, then open a Serial Command tool on PC to send API commands to control the product.

RS-232 Commands

ASCII Commands				
- Service port (USB-C virtual RS-232) communication protocol (Internal debug) Baud rate: 115200 (fixed), Data bit: 8, Stop bit: 1, Parity bit: none. The end mark of command is "<CR><LF>" - Phoenix RS-232 port communication protocol (Connect to control system) Baud rate: 4800~115200 (configurable), Data bit: 8, Stop bit: 1, Parity bit: none. The end mark of command is "<CR><LF>"				
Command	Function	Example	Feedback	Default
?	Get the list of all commands	?		
help	Get the list of all commands	help		
get fw version	Get firmware version	get fw version	TX FW 1.0.0 RX FW 1.0.0	
set reboot	Reboot the device	set reboot	Reboot... System Initializing... Initialization Finished! TX FW 1.0.0	
Command	Function	Example	Feedback	Default
set reset	Reset to factory defaults	set reset	Sure to RESET to default settings? Type "Yes" after	

			next prompt to confirm...	
get status	Get system status	get status	Please refer to the note at the end of the list.	
set key on/off	Set front panel key on/off	set key on set key off	Set key on Set key off	on
get key	Get front panel key on/off status	get key	Key on	
set baud x	Set RS-232 baud rate to x bps x=1: 4800 x=2: 9600 x=3: 19200 x=4: 38400 x=5: 57600 x=6: 115200	set baud 6	Set baud rate 115200	115200
get baud	Get RS-232 baud rate	get baud	Baud rate 115200	
get usb5v x	Get USB host input port 5V (x=0~2) x=0: all USB host inputs x=1: USB host 1 (USBC) x=2: USB host 2 (USBC)	get usb5v 0	USB host 1: 5V USB host 2: none	
set autoswitch x	Set auto-switching on/off (USB 5V detection) x=On, Off	set autoswitch on	Set autoswitch on	on
get autoswitch	Get auto-switching status	get autoswitch	Autoswitch on	
set tx usbd x power y	Set TX USB device ports (x=0~3) power to (y=0~2) x=0: TX all USB device ports x=1: TX USB device 1 (USBC) x=2: TX USB device 2 (USBA) x=3: TX USB device 3 (USBA) y=0: Force power off y=1: Follow USB host power y=2: Force power on	set tx usbd 0 power 1	Set TX all USB device ports power follow USB host power	1

get tx usbd x power	Get TX USB device ports (x=0~3) power status x=0: TX all USB device ports x=1: TX USB device 1 (USBC) x=2: TX USB device 2 (USBA) x=3: TX USB device 3 (USBA)	get tx usbd 0 power	TX all USB device ports power follow USB host power	
Command	Function	Example	Feedback	Default
set rx usbd x power y	Set RX USB device ports (x=0~3) power to (y=0~2) x=0: RX all USB device ports x=1: RX USB device 1 (USBC) x=2: RX USB device 2 (USBA) x=3: RX USB device 3 (USBA) y=0: Force power off y=1: Follow USB host power y=2: Force power on	set rx usbd 0 power 1	Set RX all USB device ports power follow USB host power	1
get rx usbd x power	Get RX USB device ports (x=0~3) power status x=0: RX all USB device ports x=1: RX USB device 1 (USBC) x=2: RX USB device 2 (USBA) x=3: RX USB device 3 (USBA)	get rx usbd 0 power	RX all USB device ports power follow USB host power	
set hdbt update	Set service port to HDBT UART for FW update	set hdbt update	HDBT update	
set input x	Set USB host input port (x=1~2) x=1: USB host 1 (USBC) x=2: USB host 2 (USBC)	set input 1	Set input USB host 1	1
get input	Get USB host input port	get input	Input USB host 1	

Note: The feedback of the command of “get status” is as follow. (The middle line ends with <LF><CR> and the last line ends with <CR><LF>.)

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Status Info 2-Port USB 3.2 Gen 1 Extender
TX_FW 1.0.0 RX_FW 1.0.0
Source   Key       Baud       Autoswitch
01       On        115200     On
Input    USB_Power
01       5V
02       None
Output    USB_Power
TX_01     Follow_Input
TX_02     Follow_Input
TX_03     Follow_Input
RX_01     Follow_Input
RX_02     Follow_Input
RX_03     Force_On
=====
```