

iTrans WP70HBC

2 x 1 USB-C & HDMI over HDBT 3.0 Wall Plate Extender Kit (Tx + Rx)

API Commands V1.0

RS232 Default Setting

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

Command Description

Take Command **SET SW in out<CR><LF>** as an example:

1. **[SET SW]** denotes command key words, case insensitive.
2. **[in out]** denotes parameters, case insensitive; incorrect parameters will not be recognized.
3. **<CR><LF>** denotes a carriage return or a line feed; all commands must be ended up with a carriage return or a line feed.

#	Function	Command	Example
System Setting			
1	Factory reset	Command: RESET<CR><LF> Return: RESET<CR><LF> Description: Reset the device.	Command: RESET<CR><LF> Return: RESET<CR><LF> Description: Factory reset all boards
2	System reboot	Command: REBOOT<CR><LF> Return: REBOOT<CR><LF>	Command: REBOOT<CR><LF> Return: REBOOT<CR><LF>
3	Get the API list	Command: help<CR><LF> Return: xxxx	Command: help<CR><LF> Return: xxxx
Firmware Update			
4	Get selected target firmware version	Command: GET VER <i>target</i> <CR><LF> Return: VER <i>target prm</i> <CR><LF> Parameter: <i>target</i> = {all, MCU, MCDP5200, TPS65988,} <i>prm</i> = {...} // According to actual firmware version. Note: MCDP520 and TPS65988 are available for transmitter only.	Command: GET VER all <CR><LF> Return: VER module1 V1.2<CR> VER module2 V1.3<CR> VER module3 V1.4<CR><LF> Description: Get selected target app firmware version.

#	Function	Command	Example
5	Upgrade module	Command: UPG [<i>prm</i>] <CR><LF> Return: UPG [<i>prm</i>] <CR><LF> Parameter: <i>prm</i> = {MCU, MCDP5200, TPS65988} Note: MCDP520 and TPS65988 are available for transmitter only.	Command: UPG MCU<CR><LF> Return: UPG MCU<CR><LF> Description: Upgrade module.
Switching			
6	Switch one Input to Output Note: This command is available for transmitter only.	Command: SET SW <i>in out</i> <CR><LF> Return: SW <i>in out</i> <CR><LF> Parameter: <i>in</i> = {typec, hdmi} <i>out</i> = {out} Description: SW is short for Switch. Switch one input source to one output sink.	Command: SET SW hdmi out<CR><LF> Return: SW hdmi out<CR><LF> Description: Switch hdmi input to output.
7	Get which input is mapping to the Output Note: This command is available for transmitter only.	Command: GET MP <i>out</i> <CR><LF> Return: Mp <i>in out</i> <CR><LF> Parameter: <i>in</i> = {typec, hdmi}; <i>out</i> = {out} Description: MP is short for mapping.	Command: GET MP out<CR><LF> Return: MP hdmi out<CR><LF> Description: Current selected input source is hdmi.

#	Function	Command	Example
		Get which input is being mapped to the Output.	
8	Set Auto Switch Function to on/off Note: This command is available for transmitter only.	Command: SET AUTOSW_FN <i>prm</i> <CR><LF> Return: AUTOSW_FN <i>prm</i> <CR><LF> Parameter: <i>prm</i> = {on, off} Description: When the <i>prm</i> is <i>on</i> , Auto Switch Function is in active status. When the <i>prm</i> is <i>off</i> , Auto Switch Function is in inactive status.	Command: SET AUTOSW_FN <i>on</i> <CR><LF> Return: AUTOSW_FN <i>on</i> <CR><LF> Description: Set Auto Switch Function to on.
9	Get Auto Switch Function on/off Status	Command: GET AUTOSW_FN <CR><LF> Return: AUTOSW_FN <i>prm</i> <CR><LF> Parameter: <i>prm</i> = {on, off} Description: Get Auto Switch Function is in active status or inactive status.	Command: GET AUTOSW_FN <CR><LF> Return: AUTOSW_FN <i>on</i> <CR><LF> Description: Get Auto Switch mode is in active status or inactive status. The result is in active status.
CEC Control			
10	Send CEC command to control display on/off	Command: SET CEC_PWR <i>out</i> <i>prm</i> <CR><LF>	Command: SET CEC_PWR <i>out</i> <i>on</i> <CR><LF> Return:

#	Function	Command	Example
	Note: This command is available for transmitter only.	Return: CEC_PWR out <i>prm</i> <CR><LF> Parameter: <i>prm</i> = {on, off} <i>out</i> = {out}	CEC_PWR out on<CR><LF> Description: Send CEC command to control display on.
11	Enable/disable CEC automatic control of display off Note: This command is available for transmitter only.	Command: SET AUTOCEC_FN out <i>prm</i> <CR><LF> Return: AUTOCEC_FN out <i>prm</i> <CR><LF> Parameter: <i>prm</i> = {on, off} <i>out</i> = {out}	Command: SET AUTOCEC_FN out on<CR><LF> Return: AUTOCEC_FN out on<CR><LF> Description: Enable CEC automatic control of display off.
12	Get if CEC automatic control of display off is enabled Note: This command is available for transmitter only.	Command: GET AUTOCEC_FN out<CR><LF> Return: AUTOCEC_FN out <i>prm</i> <CR><LF> Parameter: <i>prm</i> = {on, off} <i>out</i> = {out}	Command: GET AUTOCEC_FN out<CR><LF> Return: AUTOCEC_FN out1 on<CR><LF> Description: Get if CEC automatic control of display off is enabled, the result is yes.

#	Function	Command	Example
13	Set the delay time to control the display off through CEC when no active signal is present Note: This command is available for transmitter only.	Command: SET AUTOCEC_D <i>out</i> <i>prm</i><CR><LF> Return: AUTOCEC_D <i>out</i> <i>prm</i><CR><LF> Parameter: <i>out</i> = {<i>out</i>} <i>prm</i> = {1, 2, 3...,}/ According to the actual time counter, 1 means 1 minute, 2 means 2 minutes, default waiting time is 2 minutes, maximum waiting time is 30 minutes. 0 means when no active signal is present, the display will power off automatically. Description: AUTOCEC_D is short for CEC auto Power Delay Timing.	Command: SET AUTOCEC_D <i>out</i><CR><LF> Return: AUTOCEC_D <i>out</i><CR><LF> Description: Set the delay time for HDMI output to control the display off through CEC as 2 minutes, i.e. when no active signal is present at HDMI output for 2 minutes, it will automatically send CEC command to control its attached display off.
14	Get the delay time to control the display off through CEC when no active signal is present Note: This command is available for transmitter only.	Command: GET AUTOCEC_D <i>out</i> <CR><LF> Return: AUTOCEC_D <i>out</i> <i>prm</i><CR><LF> Parameter: <i>out</i> = {<i>out</i>} <i>prm</i> = {1, 2, 3...,}/ According to the actual time counter, 1 means 1 minute, 2 means 2 minutes, default waiting time is 2 minutes, maximum waiting time is 30 minutes. 0 means when no	Command: GET AUTOCEC_D <i>out</i> <CR><LF> Return: AUTOCEC_D <i>out</i> 2 <CR><LF> Description: Get the delay time for HDMI OUT to send CEC command to control the display off when no signal is present at HDMI OUT, and the result is 2 minutes.

#	Function	Command	Example
		active signal is present, the display will power off automatically. Description: AUTOCEC_D is short for CEC auto Power Delay Timing.	
RS232			
15	Set UART baud rate	Command: SET UART_B <i>prm1</i> <i>prm2</i><CR><LF> Return: UART_B <i>prm1</i> <i>prm2</i><CR><LF> Parameter: <i>prm1</i> = {uart1} <i>prm2</i> = {9600, 19200, 38400, 57600, 115200}	Command: SET UART_B uart1 9600<CR><LF> Return: UART_B uart1 9600<CR><LF> Description: Set UART1 baud rate to 9600.