



HD-HPCUWP 100m HDBaseT 2.0 Transmitter Wall Plate API Command Set

Version: V1.0.0

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About RS232 Setting

The settings for the RS232 port are:

1. Baud Rate – 115200
2. Data Bits – 8 bits
3. Parity – None
4. Stop Bits – 1 bit
5. Flow Control – None

About the Command Set

Take Command *SET UART_B prm[CR/LF]* as an example:

1. *[SET UART_B]* denotes command key words, case in-sensitive.
2. *[prm]* denotes parameters, case in-sensitive, incorrect parameters number will not be recognized.
3. *[CR/LF]* is needed, all commands end up with [CR/LF].

IDX	Function Description	More Details		Note
1	Set UART BAUDRATE	Syntax Command: SET UART_B <i>prm</i> [CR/LF] Return: UART_B <i>prm</i> [CR/LF] Parameter: <i>prm</i> = {9600, 19200, 38400, 57600, 115200} Description: Set UART BAUDRATE	Example Command: SET UART_B 9600[CR/LF] Return: UART_B 9600[CR/LF] Description: Set UART baudrate to 9600	
2	Get UART BAUDRATE	Syntax Command: GET UART_B[CR/LF] Return: UART_B <i>prm</i> [CR/LF] Parameter: <i>prm</i> = {9600, 19200, 38400, 57600, 115200} Description: Get UART BAUDRATE	Example Command: GET UART_B[CR/LF] Return: UART_B 9600[CR/LF] Description: Unit reports UART baudrate is 9600	
3	Reset UART BAUDRATE	Syntax Command: RESET UART_B[CR/LF] Return: UART_B <i>prm</i> [CR/LF] Parameter: <i>prm</i> = {115200} Description: Reset UART BAUDRATE	Example Command: RESET UART_B[CR/LF] Return: UART_B 115200[CR/LF] Description: Reset UART baudrate to default (115200)	
4	Set UART ENDCHAR	Syntax Command: SET UART_E <i>prm</i> [CR/LF] Return: UART_E <i>prm</i> [CR/LF] Parameter: <i>prm</i> = {null,,cr,lf,crlf} cr: carriage return, ascii code is 0x0D. lf: line feed, ascii code is 0x0A. Description: Set UART ENDCHAR	Example Command: SET UART_E cr[CR/LF] Return: UART_E cr[CR/LF] Description: UART end Char is set to cr	

IDX	Function Description	More Details		Note
5	Get UART ENDCHAR	Syntax Command: GET UART_E[CR/LF] Return: UART_E <i>prm</i>[CR/LF] Parameter: <i>prm</i> = {null, cr, lf, crlf} cr: carriage return, ascii code is 0x0D. lf: line feed, ascii code is 0x0A. Description: Get UART ENDCHAR	Example Command: GET UART_E[CR/LF] Return: UART_E <i>cr</i>[CR/LF] Description: UART end Char is cr	
6	Reset UART ENDCHAR	Syntax Command: RESET UART_E [CR/LF] Return: UART_E <i>prm</i>[CR/LF] Parameter: <i>prm</i> = {crlf} cr: carriage return, ascii code is 0x0D. lf: line feed, ascii code is 0x0A. Description: Reset UART ENDCHAR	Example Command: RESET UART_E[CR/LF] Return: UART_E <i>crlf</i>[CR/LF] Description: Reset UART end Char to default (crlf)	
7	Edit UART character command	Syntax Command: SET UART_STR <i>prm1 prm2 prm3</i>[[CR/LF] Return: UART_STR <i>prm1 prm2 prm3</i>[CR/LF] Parameter: <i>prm1</i> = {poweron, poweroff} //PRM1 specifies either the poweron or poweroff command string buffer. <i>prm2</i> = {1, 2, 3, 4, 5} //PRM2 is the index to the command string you are defining. <i>prm3</i> = {xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx} //PRM3 is a string of up to 64 ASCII characters stored in the index specified by PRM2 . Description: Stores the command string(s) that go out the receiver unit's RS-232 port in response to a poweron or poweroff event.	Example Command: SET UART_STR <i>poweron 1 xxxx</i>[[CR/LF] Return: UART_STR <i>poweron 1 xxxx</i>[[CR/LF] Description: Edit UART command	The HD-HPCUWP-Tx will send up to 5 strings of up to 64 characters each out RS232 equipped FSR HDBT receiver units to control external devices in response to a “poweron” or “poweroff” event. The “poweron” and “poweroff” events are triggered by detection/loss of a valid VGA or HDMI signal, or manually via the Display On/Off switch on the front panel. A “poweron” event is also triggered each time the input select switch is pressed.

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8	Get UART character command	Syntax Command: GET UART_STR <i>prm1 prm2</i> [CR/LF] Return: UART_STR<i>prm1 prm2</i> [CR/LF] Parameter: <i>prm1</i> = {poweron, poweroff} //PRM1 specifies either the poweron or poweroff command string buffer. <i>prm2</i> = {1, 2, 3, 4, 5} //PRM2 is the index to the command string returned. Description: Get the stored RS-232 poweron or poweroff command strings.	Example Command: GET UART_STR <i>poweron 1</i> [CR/LF] Return: UART_STR<i>poweron 1 xxxx</i> [CR/LF] Description: Get UART command	
9	Reset character UART command	Syntax Command: RESET UART_STR <i>prm1 prm2</i> [CR/LF] Return: UART_STR<i>prm1 prm2</i> [CR/LF] Parameter: <i>prm1</i> = {poweron, poweroff} //PRM1 specifies either the poweron or poweroff command string buffer. <i>prm2</i> = {1,2,3,4,5,all} // PRM2 is the index to the command string you are clearing. Description: Clear the specified RS-232 command string	Example Command: RESET UART_STR <i>poweron 1</i> [CR/LF] Return: UART_STR<i>poweron 1</i> [CR/LF] Description: Clears the command in poweron string buffer 1.	
10	Edit Hex uart command	Syntax Command: SET UART_HEX <i>prm1 prm2 hex1 hex2 hex3</i> [CR/LF] Return: UART_HEX <i>prm1 prm2 hex1 hex2 hex3</i> [CR/LF] Parameter: <i>prm1</i> = {poweron, poweroff} //PRM1 specifies either the poweron or poweroff command string buffer. <i>prm2</i> = {1, 2, 3, 4, 5} //PRM2 is the index to the command string you are defining. <i>Hex1, hex2</i> = {xx xx xx xx ...} //hex1, hex2..., is the ASCII string of hex values. Each hex pair is separated by a space, maximum of 64 pairs. Description: Stores the hex command string(s) that go out the receiver unit's RS-232 port in response to a poweron or poweroff event.	Example Command: SET UART_HEX <i>poweron 1 12 34 56</i> [CR/LF] Return: UART_HEX <i>poweron 1 12 34 56</i> [CR/LF] Description: Stores a hex 12 34 56 in poweron string buffer 1.	This command will allow you to create strings of hex data in the specified command buffer to support equipment with hex or mixed hex/ASCII commands

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11	Set USB mode	Syntax Command: SET USB_M <i>prm</i> [CR/LF] Return: USB_M <i>prm</i> [CR/LF] Parameter: <i>prm</i> = {host, device} Description: Set the USB mode (host or device) of the front panel USB port.	Example Command: SET USB_M <i>host</i> [CR/LF] Return: USB_M <i>host</i> [CR/LF] Description: Sets the USB port to “host” mode.	The dip switch on receiver units must be set correctly so as not to conflict with this setting. This takes the place of the dip switch on the HD-HPCUWP-Tx. The USB mode may also be configured by a long press (10 seconds) of the front panel Input Select switch. See the user manual for more information.
12	Get USB work mode	Syntax Command: GET USB_M[CR/LF] Return: USB_M <i>prm</i> [CR/LF] Parameter: <i>prm</i> = {host, device} Description: Returns the front panel USB port mode (host or device)	Example Command: GET USB_M[CR/LF] Return: USB_M <i>host</i> [CR/LF] Description: The front panel USB port is set to host mode.	
13	Reset USB mode	Syntax Command: RESET USB_M[CR/LF] Return: USB_M <i>prm</i> [CR/LF] Parameter: <i>prm</i> = {host} Description: Resets USB port to the default (host) mode.	Example Command: RESET USB_M[CR/LF] Return: USB_M <i>host</i> [CR/LF] Description: Reset the front panel USB port to default (host)	
14	Set Long Reach on/off	Syntax Command: SET LR_FN <i>prm 1</i> [CR/LF] Return: LR_FN <i>prm 1</i> [CR/LF] Parameter: <i>prm 1</i> = {on, off}; Description: Sets the long reach mode to on or off	Example Command: SET LR_FN <i>on</i> [CR/LF] Return: LR_FN <i>on</i> [CR/LF] Description: Sets the long reach mode to “on”	

IDX	Function Description	More Details		Note
15	Get Long Reach on/off	Syntax Command: GET LR_FN[CR/LF] Return: LR_FN <i>prm1</i> [CR/LF] Parameter: <i>prm1</i> = {on, off}; Description: Returns the long reach setting.	Example Command: GET LR_FN[CR/LF] Return: LR_FN <i>on</i> [CR/LF] Description: Indicates that the long reach mode is “on”.	
16	Reset Long Reach on/off	Syntax Command: RESET LR_FN[CR/LF] Return: LR_FN <i>prm1</i> [CR/LF] Parameter: <i>prm1</i> = {off}; Description: Reset long reach to the default “off” mode.	Example Command: RESET LR_FN[CR/LF] Return: LR_FN <i>off</i> [CR/LF] Description: Reset long reach to default (off)	
17	Factory reset	Syntax Command: RESET[CR/LF] Return: RESET[CR/LF] Parameter: Description: Factory reset clears all settings to default and clears any UART string data.	Example Command: RESET[CR/LF] Return: RESET[CR/LF] Description: Factory reset	
18	Get UART CMD	Syntax Command: GET UART_CMD[CR/LF] Return: <i>prm</i> [CR/LF] Parameter: <i>prm</i> = {SET UART_B <i>prm</i> , GET UART_B, ...} Description: Get all RS232 commands (help command)	Example Command: GET UART_CMD[CR/LF] Return: SET UART_B <i>prm</i> [CR/LF] GET UART_B[CR/LF] RESET UART_B[CR/LF] SET UART_E <i>prm</i> [CR/LF] GET UART_E[CR/LF] RESET UART_E[CR/LF] ... Description: The format of all available commands is returned.	

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19	Get software version	Syntax Command: GET SW_VERSION[CR/LF] Return: <i>prm1</i> [CR] Parameter: <i>prm1</i> = software version info Description: Get software version.	Example Command: GET SW_VERSION[CR/LF] Return: HDBaseT2.0 Wall Plate transmitter V1.8 Description: Unit reports it is running software V1.8.	
20	Upgrade module	Syntax Command: UPG [<i>prm</i>][CR/LF] Return: UPG [<i>prm</i>][CR/LF] Parameter: <i>prm</i> = {xxx} Description: Used to load new unit software.	Example Command: UPG[CR/LF] Return: UPG[CR/LF] Description: Upgrade software	Do not use this command without complete upgrade instructions from FSR
CEC Command				
21	Set CEC POWER Delay Time	Syntax Command: SET AUTOCEC_D <i>prm</i> [CR/LF] Return: AUTOCEC_D SET <i>prm</i> [CR/LF] Parameter: <i>prm</i> = {3, 4, 5...} //delay time between loss of valid input signal and output of CEC power off command to display. Range is from 1 to 60 minutes, default value is 3 minutes. Description: AUTOCEC_D is short for CEC auto Power Delay Timing	Example Command: SET AUTOCEC_D 3[CR/LF] Return: AUTOCEC_D SET 3[CR/LF] Description: When no active source input, the connected sink will be automatically powered off 3 minutes later.	Setting the CEC power delay time allows the display to be powered off after the specified period of time when there's no source input; and be powered on immediately once detecting an input.

IDX	Function Description	More Details		Note
22	Get CEC POWER Delay Time Status	Syntax Command: GET AUTOCEC_D[CR/LF] Return: AUTOCEC_D GET <i>prm</i>[CR/LF] Parameter: <i>prm</i> = {3, 4, 5 delay time between loss of valid input signal and output of CEC power off command to display. Range is from 1 to 60 minutes, default value is 3 minutes. Description: AUTOCEC_D is short for CEC auto Power Delay Timing	Example Command: GET AUTOCEC_D[CR/LF] Return: AUTOCEC_D GET 3[CR/LF] Description: Get auto-CEC power delay time, the result is 3 minutes	Setting the CEC power delay time allows the display to be powered off after the specified period of time when there's no source input; and be powered on immediately once detecting an input.
23	Reset CEC POWER Delay Time	Syntax Command: RESET AUTOCEC_D[CR/LF] Return: AUTOCEC_D RESET <i>prm</i>[CR/LF] Parameter: <i>prm</i> = {3,} delay time between loss of valid input signal and output of CEC power off command to display; default value of 3 minutes. Description: AUTOCEC_D is short for CEC auto Power Delay Timing	Example Command: RESET AUTOCEC_D[CR/LF] Return: AUTOCEC_D RESET 3[CR/LF] Description: Reset CEC power delay time to default (3 minutes)	
24	Set Auto CEC mode	Syntax Command: SET AUTOCEC_M <i>prm</i>[CR/LF] Return: AUTOCEC_M <i>prm</i>[CR/LF] Parameter: <i>prm</i> = {on, off};//set the auto CEC mode to on/off The default setting for auto CEC mode is on. Description: AUTOCEC_M is short for CEC auto mode	Example Command: SET AUTOCEC_M off[CR/LF] Return: AUTOCEC_M off[CR/LF] Description: Set the auto CEC mode to off.	Disables the automatic CEC power command upon detection or loss of signal. When the auto CEC mode is set to "off", you still can send out CEC command via "Display" button on front panel.

IDX	Function Description	More Details		Note
25	Get Auto CEC on/off	Syntax Command: GET AUTOCEC_M[CR/LF] Return: AUTOCEC_M <i>prm</i> [CR/LF] Parameter: <i>prm</i> = {on, off};//get the auto CEC mode, on/off; Description: AUTOCEC_M is short for auto CEC mode	Example Command: GETAUTOCEC_M[CR/LF] Return: AUTOCEC_M off[CR/LF] Description: The auto CEC mode is off.	
26	Reset Auto CEC on/off	Syntax Command: RESET AUTOCEC_M [CR/LF] Return: AUTOCEC_M <i>prm</i> [CR/LF] Parameter: <i>prm</i> = {on};//reset the auto cec mode,on; Description: AUTOCEC_M is short for CEC auto mode;	Example Command: RESET AUTOCEC_M [CR/LF] Return: AUTOCEC_M on [CR/LF] Description: Reset the auto CEC mode to default (on)	
27	Set UART POWER Delay Time	Syntax Command: SET AUTOUART_D <i>prm</i> [CR/LF] Return: AUTOUART_D SET <i>prm</i> [CR/LF] Parameter: <i>prm</i> = {3, 4, 5, ...};// delay time between loss of valid input signal and output of UART poweroff strings at receiver RS-232 port. Range is from 1 to 60 minutes, default value is 3 minutes. Description: AUTOUART_D is short for UART auto Power Delay Timing	Example Command: SET AUTOUART_D 3 [CR/LF] Return: AUTOUART_D SET 3 [CR/LF] Description: When no active signal to output, 3 minutes later, the "poweroff" RS-232 strings will be sent out the receiver RS-232 port.	When the Auto UART mode is enabled, use this command to set the delay time.
28	Get UART POWER Delay Time Status	Syntax Command: GET AUTOUART_D [CR/LF] Return: AUTOUART_D GET <i>prm</i> [CR/LF] arameter: <i>prm</i> = {3, 4, 5, ...};// delay time between loss of valid input signal and output of UART poweroff strings at receiver RS-232 port. Range is from 1 to 60 minutes, default value is 3 minutes. Description: AUTOUART_D is short for UART auto Power Delay Timing	Example Command: GET AUTOUART_D [CR/LF] Return: AUTOUART_D GET 3 [CR/LF] Description: Get output auto power delay time, the result is 3 minutes	

IDX	Function Description	More Details		Note
29	Reset UART POWER Delay Time	Syntax Command: RESET AUTOUART_D [CR/LF] Return: AUTOUART_D RESET <i>prm</i> [CR/LF] Parameter: <i>prm</i> = {3,} // delay time between loss of valid input signal and output of UART poweroff strings at receiver RS-232 port is set to default value is 3 minutes Description: AUTOUART_D is short for UART auto Power Delay Timing	Example Command: RESET AUTOUART_D [CR/LF] Return: AUTOUART_D RESET 3 [CR/LF] Description: When no active signal to output, 3 minutes later, the unit will auto power off.	
30	Set Auto UART mode	Syntax Command: SET AUTOUART_M <i>prm</i> [CR/LF] Return: AUTOUART_M <i>prm</i> [CR/LF] Parameter: <i>prm</i> = {on, off} // set the auto UART mode, on/off Description: AUTOUART_M is short for UART auto mode;	Example Command: SET AUTOUART_M off [CR/LF] Return: AUTOUART_M off [CR/LF] Description: Set the auto UART mode off.	Disables the automatic UART power command upon detection or loss of signal. When the auto UART mode is set to "off", you still can send out the UART commands via the "Display" switch on front panel
31	Get Auto UART on/off	Syntax Command: GET AUTOUART_M [CR/LF] Return: AUTOUART_M <i>prm</i> [CR/LF] Parameter: <i>prm</i> = {on, off} // get the auto UART mode, on/off; Description: AUTOUART_M is short for UART auto mode;	Example Command: GET AUTOUART_M [CR/LF] Return: AUTOUART_M off [CR/LF] Description: The auto UART mode is off.	
32	Reset Auto UART on/off	Syntax Command: RESET AUTOUART_M [CR/LF] Return: AUTOUART_M <i>prm</i> [CR/LF] Parameter: <i>prm</i> = {on} // reset the autoUART mode, on; Description: AUTOUART_M is short for UART auto mode;	Example Command: RESET AUTOUART_M [CR/LF] Return: AUTOUART_M on [CR/LF] Description: Reset the auto UART mode to default (on)	

IDX	Function Description	More Details		Note
Normal Switch case				
33	Input Switch Command	Syntax Command: SET SW <i>prm</i> [CR/LF] Return: <i>SW prm</i> [CR/LF] Parameter: <i>prm</i> = {hdmi, vga} Description: Sets the input to the specified input source.	Example Command: SET SW <i>hdmi</i> [CR/LF] Return: <i>SW hdmi</i> [CR/LF] Description: Switch the input to hdmi1.	Returns “parameter error” if specified source is not present
34	Get active input source channel	Syntax Command: GET SW[CR/LF] Return: <i>prm</i> [CR/LF] Parameter: <i>prm</i> = {hdmi, vga} Description: Get active input source channel	Example Command: GET SW[CR/LF] Return: hdmi[CR/LF] Description: Get the input source channel	Returns “No active source channel” if no signal is present on either input
35	Reset active input source channel	Syntax Command: RESET SW[CR/LF] Return: <i>prm</i> [CR/LF] Parameter: <i>prm</i> = {hdmi}; Description: Reset active input source channel	Example Command: RESET SW[CR/LF] Return: hdmi[CR/LF] Description: Reset the input to default (HDMI)	Returns “No HDMI Source” if HDMI signal is not present

