

MX-0402-MST

API Reference Manual



2. Command Details

2.1 System

2.1.1 Get the API list

Returns a list of all api commands.

Get the API list	
Command structure: help[CR/LF]	Note:
Response structure: xxxx	
Command Example: help[CR/LF]	
Response Example: xxxx	

2.1.2 Get selected target firmware version

Gets selected target firmware version.

Get selected target firmware version	
Command structure: GET VER prm1[CR/LF]	Note: prm1 = {MAIN, ARM, KTM5000, LT86404, TPS65988, CPLD, ALL} prm2 = {...} // according to actual firmware version
Response structure: VER prm2[CR/LF]	
Command Example 1: GET VER[CR/LF]	
Response Example 1: Main V1.1.3[CR/LF]	
Command Example 2: GET VER ALL [CR/LF]	
Response Example 2: Main V1.1.3[CR/LF] ARM V1.1.3[CR/LF] 65988 V1.0.1[CR/LF] KTM5000 V1.0.3[CR/LF] LT8642 V1.1.0[CR/LF] VS3000 V5.4.87[CR/LF] CPLD V1.0.0[CR/LF]	

2.1.3 Factory reset

Factory reset	
Command structure: RESET[CR/LF]	Note:
Response structure: RESET[CR/LF]	
Command Example: RESET[CR/LF]	
Response Example: RESET[CR/LF]	

2.1.4 System reboot

System reboot	
Command structure: REBOOT[CR/LF]	Note:
Response structure: REBOOT[CR/LF]	
Command Example: REBOOT[CR/LF]	
Response Example: REBOOT[CR/LF]	

2.1.5 Telnet username and password

Set the username and password for logging into Telnet.

Telnet username and password	
Command structure: SET TEL_USNM Oldusnm Newusnm TEL_PWD Oldpwd Newpwd[CR/LF]	Note: Old/Newusnm : The length is [4, 16] Old/Newpwd : Must be 4 to 16 characters in length (alphanumeric only) prm : {0, 1}; // 0: failed, 1: success
Response structure: TEL_USNM prm TEL_PWD prm[CR/LF]	
Command Example: SET TEL_USNM root root123 TEL_PWD admin admin123[CR/LF]	
Response Example: TEL_USNM 1 TEL_PWD 1[CR/LF]	

2.2 Switch

2.2.1 Set input to output

Set input to output	
Command structure: SET SW out in[CR/LF]	Note: in = {IN1, IN2, IN3, IN4} out = {OUT1, OUT2}
Response structure: SW out in[CR/LF]	
Command Example: SET SW OUT1 IN2[CR/LF]	
Response Example: SW OUT1 IN2[CR/LF]	

2.2.2 Get input for output

Retrieve the input source assigned to a specific HDMI output.

Get input for output	
Command structure: GET SW out[CR/LF]	Note: in = {IN1, IN2, IN3, IN4} out = {OUT1, OUT2}
Response structure: SW out in[CR/LF]	
Command Example: GET SW OUT2[CR/LF]	
Response Example: SW OUT2 IN1[CR/LF]	

2.2.3 Set auto switching mode

Enable or disable the automatic switching mode for video and USB.

Auto switching mode	
Command structure: SET AUTOSW_FN prm[CR/LF]	Note: prm = {on, off}
Response structure: AUTOSW_FN prm[CR/LF]	
Command Example: SET AUTOSW_FN on[CR/LF]	
Response Example: AUTOSW_FN on[CR/LF]	

2.2.4 Get auto switching mode

Check the current status of the automatic switching mode for video and USB.

Get the API list

Command structure:
GET AUTOSW_FN [CR/LF]

Response structure:
AUTOSW_FN prm [CR/LF]

Command Example:
GET AUTOSW_FN [CR/LF]

Response Example:
AUTOSW_FN on[CR/LF]

Note:

prm = {on, off}

2.3 CEC

2.3.1 Set CEC Power On/Off

Set sink power on or off.

Set CEC Power	
Command structure: SET CEC_PWR out prm[CR/LF]	Note: prm = {on,off} out = {OUT1, OUT2, ALL}
Response structure: CEC_PWR out prm[CR/LF]	
Command Example: SET CEC_PWR OUT1 on[CR/LF]	
Response Example: CEC_PWR OUT1 on[CR/LF]	

2.3.2 Set CEC Auto Power On/Off

Set CEC Auto Power On/Off	
Command structure: SET AUTOCEC_FN out prm[CR/LF]	Note: prm = {on, off} out = {OUT1, OUT2, ALL} Default: on
Response structure: AUTOCEC_FN out prm[CR/LF]	
Command Example: SET AUTOCEC_FN OUT1 on[CR/LF]	
Response Example: AUTOCEC_FN OUT1 on[CR/LF]	

2.3.3 Get CEC Auto Power Status

Get CEC Auto Power Status	
Command structure: GET AUTOCEC_FN out[CR/LF]	Note: prm = {on, off} out = {OUT1, OUT2, ALL} Default: on
Response structure: AUTOCEC_FN out prm[CR/LF]	
Command Example: GET AUTOCEC_FN OUT1[CR/LF]	
Response Example: AUTOCEC_FN OUT1 on[CR/LF]	

2.3.4 Set CEC Power Delay Time

Set CEC Power Delay Time	
Command structure: SET AUTOCEC_D out prm[CR/LF]	Note: out = {OUT1, OUT2,,ALL}; prm = {30,40,60,...} According to the actual time counter, in seconds. Maximum 1800s.
Response structure: AUTOCEC_D out prm[CR/LF]	
Command Example: SET AUTOCEC_D OUT1 30[CR/LF]	
Response Example: AUTOCEC_D OUT1 30[CR/LF]	

2.3.5 Get CEC Power Delay Time Status

Get CEC Power Delay Time Status	
Command structure: GET AUTOCEC_D out[CR/LF]	Note: out = {OUT1, OUT2, ALL}; prm = {30,40,60,...} According to the actual time counter, in seconds. Maximum 1800s.
Response structure: AUTOCEC_D out prm[CR/LF]	
Command Example: GET AUTOCEC_D OUT1[CR/LF]	
Response Example: AUTOCEC_D OUT1 30[CR/LF]	

2.3.6 Sets CEC Volume increase

Sets CEC Volume increase	
Command structure: SET CEC_VOL_INC out[CR/LF]	Note: out = {OUT1, OUT2, ALL}
Response structure: CEC_VOL_INC out [CR/LF]	
Command Example: SET CEC_VOL_INC OUT1[CR/LF]	
Response Example: CEC_VOL_INC OUT1 [CR/LF]	

2.3.7 Set CEC Volume decrease

Set CEC Volume decrease	
Command structure: SET CEC_VOL_DEC out[CR/LF]	Note: out = {OUT1, OUT2, ALL}
Response structure: CEC_VOL_DEC out [CR/LF]	
Command Example: SET CEC_VOL_DEC OUT1[CR/LF]	
Response Example: CEC_VOL_DEC OUT1 [CR/LF]	

2.3.8 Set CEC Volume Mute

Set CEC Volume Mute	
Command structure: SET CEC_VOL_MUTE out[CR/LF]	Note: out = {OUT1, OUT2, ALL} prm = {OK}
Response structure: CEC_VOL_MUTE out prm[CR/LF]	
Command Example: SET CEC_VOL_MUTE OUT1[CR/LF]	
Response Example: CEC_VOL_MUTE OUT1 OK[CR/LF]	

2.3.9 Set CEC Power On/Off

Set CEC command for defined Power On/Power Off.

Set CEC Power On/Off	
Command structure: SET CECCMD_EDIT out prm1 prm2[CR/LF]	Note: out = {out1, out2 ... out6, all} prm1 = {pwron, pwroff}, prm2 = {...}
Response structure: CECCMD_EDIT out prm1 prm2[CR/LF]	
Command Example: SET CECCMD_EDIT out1 pwron 40 04[CR/LF]	
Response Example: CECCMD_EDIT out1 pwron 40 04[CR/LF]	

2.3.10 Get CEC Power On/Off

Get CEC command for defined Power On/Power Off.

Get CEC Power On/Off	
Command structure: GET CECCMD_EDIT out prm1[CR/LF]	Note: out = {out1, out2 ... out6, all} prm1 = {pwr on, pwr off}, prm2 = {...} Many hexadecimal numbers, the total is less than 16, space separated.
Response structure: CECCMD_EDIT out prm1 prm2[CR/LF]	
Command Example: GET CECCMD_EDIT out1 pwr on[CR/LF]	
Response Example: CECCMD_EDIT out1 pwr on 40 04[CR/LF]	

2.3.11 Send CEC command

Send CEC command	
Command structure: SET CEC_CMD out prm[CR/LF]	Note: out = {out1, out2 ... out6, all} prm = {...} Many hexadecimal numbers, the total is less than 16, space separated.
Response structure: CEC_CMD out prm[CR/LF]	
Command Example: SET CEC_CMD out1 40 04[CR/LF]	
Response Example: CEC_CMD out1 40 04[CR/LF]	

2.4 RS232

2.4.1 Set RS232 Baud Rate

Set RS232 Baud Rate	
Command structure: SET UART_B prm1 prm2[CR/LF]	Note: prm1 = {UART1} prm2 = {115200, 57600, 38400, 19200, 9600,4800,2400}
Response structure: UART_B out prm1 prm2[CR/LF]	
Command Example: SET UART_B UART1 57600[CR/LF]	
Response Example: UART_B UART1 57600[CR/LF]	

2.4.2 Get RS232 Baud Rate

Get RS232 Baud Rate	
Command structure: GET UART_B prm1[CR/LF]	Note: prm1 = {UART1} prm2 = {115200, 57600, 38400, 19200, 9600,4800,2400}
Response structure: UART_B prm1 prm2[CR/LF]	
Command Example: GET UART_B UART1[CR/LF]	
Response Example: UART_B UART1 57600[CR/LF]	

2.4.3 Set RS232 Auto Control Power On/Off

Set RS232 Auto Control Power On/Off	
Command structure: SET UARTPWR_FN prm prm1[CR/LF]	Note: prm = {UART1} prm1 = {on,off}
Response structure: UARTPWR_FN prm1 prm2[CR/LF]	
Command Example: SET UARTPWR_FN UART1 on[CR/LF]	
Response Example: UARTPWR_FN UART1 on[CR/LF]	

2.4.4 Get RS232 Auto Control Power On/Off Status

Get RS232 Auto Control Power On/Off Status	
Command structure: GET UARTPWR_FN prm[CR/LF]	Note: prm = {UART1} prm1 = {on,off}
Response structure: UARTPWR_FN prm prm1 [CR/LF]	
Command Example: GET UARTPWR_FN UART1 on[CR/LF]	
Response Example: UARTPWR_FN UART1 on[CR/LF]	

2.4.5 Set RS232 Auto Control Power Delay Time

Set RS232 Auto Control Power Delay Time	
Command structure: SET UARTPWR_D prm prm1[CR/LF]	Note: prm = {UART1} prm1 = {0,1,2,3...,30} // According to the actual time counter, 1 means 1 minute , 2 means 2 minutes. Default wait time is 2 minutes and max wait time is 30 minutes. 0 means when no active signal, the unit auto powers off immediately.
Response structure: UARTPWR_D prm prm1[CR/LF]	
Command Example: SET UARTPWR_D UART1 2 [CR/LF]	
Response Example: UARTPWR_D UART1 2[CR/LF]	

2.4.6 Get RS232 Auto Control Power Delay Time

Get RS232 Auto Control Power Delay Time	
Command structure: GET UARTPWR_D UART1[CR/LF]	Note: prm = {UART1} prm2 = {1,2,3...30} // According to the actual time counter, 1 means 1 minute, 2 means 2 minutes. Default wait time is 2 minutes and max wait time is 30 minutes. 0 means when no active signal ,the unit auto powers off immediately.
Response structure: UARTPWR_D prm1 prm2[CR/LF]	
Command Example: GET UARTPWR_D UART1[CR/LF]	
Response Example: UARTPWR_D UART1 3[CR/LF]	

2.4.7 Set RS232 Command

Set RS232 Command	
Command structure: SET UART_CMD prm prm1 prm2 prm3[CR/LF]	Note: prm = {UART1} prm1 = {poweron, poweroff, volumemute, volumeunmute, volumeup, volumedown...} prm2 = {hex, str} prm3 = {xxxxxxxxxxx} (max size is 48 byte)
Response structure: UART_CMD prm prm1 prm2 prm3[CR/LF]	
Command Example: SET UART_CMD UART1 poweroff hex 30 31 32 33[CR/LF]	
Response Example: UART_CMD UART1 poweroff hex 30 31 32 33[CR/LF]	

2.4.8 Get RS232 Command

Get RS232 Command	
Command structure: GET UART_CMD UART1 [CR/LF]	Note: prm = {UART1} prm1 = {poweron, poweroff, volumemute, volumeunmute, volumeinc, volumedec...} prm2 = {hex, str} prm3 = {xxxxxxxxxxx} // hex is ascii character
Response structure: UART_CMD prm prm1 prm2 prm3 prm4[CR] UART_CMD prm prm1 prm2 prm3 prm4[CR] ... UART_CMD prm prmn[CR/LF]	
Command Example: GET UART_CMD UART1[CR/LF]	
Response Example: UART_CMD UART1 poweron str 123[CR/LF] UART_CMD UART1 poweroff hex 31 32 33[CR/LF] UART_CMD UART1 volumemute hex 31 32 33[CR/LF] UART_CMD UART1 volumeinc hex 31 32 33[CR/LF] UART_CMD UART1 volumedec hex 31 32 33[CR/LF]	

2.4.9 Set RS232 Command To Send

Set RS232 Command To Send	
Command structure: SET UART_CMD_S prm prm1[CR/LF]	Note: prm = {UART1} prm1 = {poweron, poweroff, volumemute, volumeunmute, volumeinc, volumedec...}
Response structure: UART_CMD_S prm prm1[CR/LF]	
Command Example: SET UART_CMD_S UART1 poweron[CR/LF]	
Response Example: UART_CMD_S UART1 poweron[CR/LF]	

2.4.10 Set UART Data Send

Set UART Data Send	
Command structure: SET UART_S prm1 prm2 prm3[CR/LF]	Note: prm1 = {uart1, uart2, uart3 ...} prm2 = {hex, str} prm3 = {xxxxxxxxxxx} (max size is 36 byte)
Response structure: UARTCMD_S prm1 prm2 prm3[CR/LF]	
Command Example: SET UART_S uart1 str 123[CR/LF]	
Response Example: UART_S uart1 str 123[CR/LF]	

2.5 Network

2.5.1 Set IP Mode

Set IP Mode	
Command structure: SET IP MODE prm[CR/LF]	Note: prm= {static, dhcp}
Response structure: IP MODE prm [CR/LF]	
Command Example: SET IP MODE dhcp[CR/LF]	
Response Example: IP MODE dhcp [CR/LF]	

2.5.2 Get IP Mode

Get IP Mode	
Command structure: GET IP MODE[CR/LF]	Note: prm= {static, dhcp}
Response structure: IP MODE prm [CR/LF]	
Command Example: GET IP MODE[CR/LF]	
Response Example: IP MODE dhcp [CR/LF]	

2.5.3 Set IP Address

Set IP Address	
Command structure: SET IPADDR xx.xx.xx.xx xx.xx.xx.xx xx.xx.xx.xx[CR/LF]	Note:
Response structure: IPADDR IP:xx.xx.xx.xx MASK: xx.xx.xx.xx GATE: xx.xx.xx.xx[CR/LF]	
Command Example: SET IPADDR 192.168.1.4 255.255.255.0 192.168.1.1[CR/LF]	
Response Example: IPADDR IP:192.168.1.4 MASK:255.255.255.0 GATE:192.168.1.1[CR/LF]	

2.5.4 Get IP Address

Get IP Address	
Command structure: GET IPADDR[CR/LF]	Note:
Response structure: IPADDR IP:xx.xx.xx.xx MASK: xx.xx.xx.xx GATE: xx.xx.xx.xx[CR/LF]	
Command Example: GET IPADDR[CR/LF]	
Response Example: IPADDR IP:192.168.1.4 MASK:255.255.255.0 GATE:192.168.1.1[CR/LF]	

2.5.5 Set VLAN Enable Status

Set VLAN Enable Status	
Command structure: SET VLAN_ENABLE prm[CR/LF]	Note: prm= {on, off}
Response structure: VLAN_ENABLE prm[CR/LF]	
Command Example: GET VLAN_ENABLE on[CR/LF]	
Response Example: VLAN_ENABLE on[CR/LF]	

2.5.6 Get VLAN Enable Status

Get VLAN Enable Status	
Command structure: GET VLAN_ENABLE[CR/LF]	Note: prm= {on, off}
Response structure: VLAN_ENABLE prm[CR/LF]	
Command Example: GET VLAN_ENABLE[CR/LF]	
Response Example: VLAN_ENABLE on[CR/LF]	

2.6 Video Information

2.6.1 Get Status of Video Input

Get Status of Video Input	
Command structure: GET VIDIN_SIG in[CR/LF]	Note: in = {IN1, IN2, IN3, IN4, all} prm = {no, valid} IN1 = HDMI IN1 IN2 = HDMI IN2 IN3 = USB-C3 (video) IN4 = USB-C4 (video) all = all video port
Response structure: VIDIN_SIG in prm[CR/LF]	
Command Example: GET VIDIN_SIG IN1[CR/LF]	
Response Example: VIDIN_SIG IN1 valid[CR/LF]	

2.6.2 Set HDCP Status

Set HDCP Status	
Command structure: SET VIDIN_HDCP_FN in prm[CR/LF]	Note: in = {IN1, IN2, IN3, IN4, all} prm = {on, off} IN1 = HDMI IN1 IN2 = HDMI IN2 IN3 = USB-C3(video) IN4 = USB-C4(video) all = all video port
Response structure: VIDIN_HDCP_FN in prm[CR/LF]	
Command Example: SET VIDIN_HDCP_FN IN1 ON[CR/LF]	
Response Example: VIDIN_HDCP_FN IN1 ON[CR/LF]	

2.6.3 Get HDCP Status

Get HDCP Status	
Command structure: GET VIDIN_HDCP_FN in[CR/LF]	Note: in = {IN1, IN2, IN3, IN4, all} prm = {on, off} IN1 = HDMI IN1 IN2 = HDMI IN2 IN3 = USB-C3(video) IN4 = USB-C4(video) all = all video port
Response structure: VIDIN_HDCP_FN in prm[CR/LF]	
Command Example: GET VIDIN_HDCP_FN IN1[CR/LF]	
Response Example: VIDIN_HDCP_FN IN1 ON[CR/LF]	

2.6.4 Get HDCP Version

Get HDCP Version	
Command structure: GET VIDIN_HDCP in[CR/LF]	Note: in = {IN1, IN2, IN3, IN4, all} prm = {no hdcp, hdcp1.4, hdcp2.2, follow} IN1 = HDMI IN1 IN2 = HDMI IN2 IN3 = USB-C3(video) IN4 = USB-C4(video) all = all video port
Response structure: VIDIN_HDCP in prm[CR/LF]	
Command Example: GET VIDIN_HDCP IN1[CR/LF]	
Response Example: VIDIN_HDCP IN1 no hdcp[CR/LF]	

2.6.5 Get SCALER OUT status

Get SCALER OUT status	
Command structure: GET SCALER out[CR/LF]	Note: out = {OUT1, OUT2, OUT3, OUT4, all} prm = {on, off, force} all = all video port
Response structure: SCALER out prm[CR/LF]	
Command Example: GET SCALER out1[CR/LF]	
Response Example: SCALER out1 off[CR/LF]	

2.6.6 Set SCALER OUT status

Set SCALER OUT status	
Command structure: SET SCALER out parm[CR/LF]	Note: out = {OUT1, OUT2, OUT3, OUT4, all} prm = {on, off, force} all = all video port
Response structure: SCALER out prm[CR/LF]	
Command Example: SET SCALER out1[CR/LF]	
Response Example: SCALER out1 off[CR/LF]	

2.7 HDCP Information

2.7.1 Get Output HDCP

Get Output HDCP	
Command structure: GET HDCP out[CR/LF]	Note: out = {OUT1, OUT2, ALL} prm = { follow, hdcp1.4, off...} // off means without HDCP, follow means sink is hdcp 1.4, then output also uses hdcp 1.4. The same with hdcp 2.2 and off.
Response structure: HDCP out prm[CR/LF]	
Command Example: GET HDCP OUT1[CR/LF]	
Response Example: HDCP OUT1 follow[CR/LF]	

2.8 Web Login

2.8.1 Set Username and Password

Set Username and Password	
Command structure: SET WEB_USNM Oldusnm Newusnm WEB_PWD Oldpassword Newpassword[CR/LF]	Note: Username: The longest length is [4, 16] Password: Must be 4 to 16 characters in length (alphanumeric only) prm1 = {0, 1} prm2 = {0, 1, 2} 0 means Oldusnm or Oldpassword error 1 means Modify username success 2 means Cannot change to default password
Response structure: WEB_USNM prm1 WEB_PWD prm2[CR/LF]	
Command Example: SET WEB_USNM admin admin123 WEB_PWD admin admin123[CR/LF]	
Response Example: WEB_USNM 1 WEB_PWD 1[CR/LF]	

2.9 USB Matrix

2.9.1 Set USB Mode

Set USB Mode	
Command structure: SET USB_M prm[CR/LF]	Note: prm = {FOLLOW1, FOLLOW2, INDEPENDENT}
Response structure: USB_M prm[CR/LF]	
Command Example: SET USB_M INDEPENDENT[CR/LF]	
Response Example: USB_M INDEPENDENT[CR/LF]	

2.9.2 Get USB Mode

Get USB Mode	
Command structure: GET USB_M[CR/LF]	Note: prm = {FOLLOW1, FOLLOW2, INDEPENDENT}
Response structure: USB_M prm[CR/LF]	
Command Example: GET USB_M[CR/LF]	
Response Example: USB_M FOLLOW1[CR/LF]	

2.9.3 Set USB Switch Input

Set USB Switch Input	
Command structure: SET USBSW in[CR/LF]	Note: in = {IN1, IN2, IN3, IN4}
Response structure: USBSW in[CR/LF]	
Command Example: SET USBSW IN1[CR/LF]	
Response Example: USBSW IN1[CR/LF]	

2.9.4 Get USB Switch Input

Get USB Switch Input	
Command structure: GET USBSW[CR/LF]	Note: in = {IN1, IN2, IN3, IN4}
Response structure: USBSW in[CR/LF]	
Command Example: GET USBSW [CR/LF]	
Response Example: USBSW i02[CR/LF]	

2.9.5 Set USB Network Status

Set USB Network Status	
Command structure: SET USBNIC in parm[CR/LF]	Note: in = {IN1, IN2, IN3, IN4, ALL} parm = {on, off}
Response structure: USBNIC in parm[CR/LF]	
Command Example: SET USBNIC IN1 on[CR/LF]	
Response Example: USBNIC IN1 on[CR/LF]	

2.9.6 Get USB Network Status

Get USB Network Status	
Command structure: GET USBNIC in[CR/LF]	Note: in = {IN1, IN2, IN3, IN4, ALL} parm = {on, off}
Response structure: USBNIC in parm[CR/LF]	
Command Example: GET USBNIC IN1 [CR/LF]	
Response Example: USBNIC IN1 on[CR/LF]	

2.10 Mic IN & Line Out

2.10.1 Set Audio Mute

Set Audio Mute	
Command structure: SET AUD_MUTE prm1 prm2[CR/LF]	Note: prm1 = {OUT1, OUT2, DeEmbed, ALL} prm2 = {ON, OFF}
Response structure: AUD_MUTE prm1 PRM2[CR/LF]	
Command Example: SET AUD_MUTE OUT1 ON[CR/LF]	
Response Example: AUD_MUTE OUT1 ON[CR/LF]	

2.10.2 Get Audio Mute Status

Get Audio Mute Status	
Command structure: GET AUD_MUTE prm1[CR/LF]	Note: prm1 = {OUT1, OUT2, DeEmbed} prm2 = {ON, OFF}
Response structure: AUD_MUTE prm1 prm2[CR/LF]	
Command Example: GET AUD_MUTE OUT1[CR/LF]	
Response Example: AUD_MUTE OUT1 ON[CR/LF]	

2.10.3 Set Audio Switch

Set Audio Switch	
Command structure: SET AUDSW prm[CR/LF]	Note: prm= {OUT1, OUT2}
Response structure: AUDSW prm [CR/LF]	
Command Example: SET AUDSW OUT1[CR/LF]	
Response Example: AUDSW OUT1 [CR/LF]	

2.10.4 Get Audio Switch

Get Audio Switch

Command structure:
GET AUDSW [CR/LF]

Response structure:
AUDSW prm [CR/LF]

Command Example:
GET AUDSW [CR/LF]

Response Example:
AUDSW OUT2 [CR/LF]

Note:

prm= {OUT1, OUT2}

2.11 EDID

2.11.1 Set EDID IN mode

Set EDID IN mode	
Command structure: SET EDID prm1 prm2[CR/LF]	prm1= {IN1,IN2,IN3,IN4,ALL} prm2= {1,2,3,4,5,6,7,8,9,10,11} mode1: Fixed 4K@60Hz 2.0ch (Default). mode2: Copy from the OUT 1. mode3: Copy from the OUT 2. mode4: Fixed 4K@60Hz 7.1ch. mode5: Fixed 4K@30Hz 2.0ch. mode6: Fixed 4K@30Hz 7.1ch. mode7: 1080P@60 2.0ch mode8: 1080P@60 5.1ch mode9: 1080P@60 7.1ch mode10: Custom EDID 1 mode11: Custom EDID 2
Response structure: EDID prm1 prm2[CR/LF]	
Command Example: SET EDID IN1 1[CR/LF]	
Response Example: EDID IN1 1[CR/LF]	

2.11.2 Get EDID IN mode

Get EDID IN mode	
Command structure: GET EDID prm1[CR/LF]	prm1= {IN1,IN2,IN3,IN4,ALL} prm2= {1,2,3,4,5,6,7,8,9,10,11} mode1: Fixed 4K@60Hz 2.0ch (Default). mode2: Copy from the OUT 1. mode3: Copy from the OUT 2. mode4: Fixed 4K@60Hz 7.1ch. mode5: Fixed 4K@30Hz 2.0ch. mode6: Fixed 4K@30Hz 7.1ch. mode7: 1080P@60 2.0ch mode8: 1080P@60 5.1ch mode9: 1080P@60 7.1ch mode10: Custom EDID 1 mode11: Custom EDID 2
Response structure: EDID prm1 prm2[CR/LF]	
Command Example: GET EDID IN1[CR/LF]	
Response Example: EDID IN1 1[CR/LF]	

2.11.3 Set Custom EDID

Set Custom EDID	
Command structure: SET EDID_W prm1 prm2 prm3[CR/LF]	Note: prm1= {cedid1, cedit2} prm2= {block0,block1} prm3= {128 bytes}
Response structure: EDID_W prm1[CR/LF]	
Command Example: Set EDID_W cedit1 block0 {xxxxxxxx}[CR/LF]	
Response Example: EDID_W cedit1 block0 success [CR/LF]	

2.11.4 Get Custom EDID

Get Custom EDID	
Command structure: GET EDID_W prm1[CR/LF]	Note: prm1= {cedid1, cedit2} prm2= {block0,block1} prm3= {128 bytes}
Response structure: EDID_W prm1 prm2 prm3[CR/LF]	
Command Example: Get EDID_W cedit1 [CR/LF]	
Response Example: EDID_W cedit1 block0 {128bytes} [CR/LF] EDID_W cedit1 block1 {128bytes} [CR/LF]	

2.11.5 Read EDID From Output

Read EDID From Output	
Command structure: GET EDID_R prm1[CR/LF]	Note:
Response structure: EDID_R prm1 prm2[CR/LF]	
Command Example: Get EDID_R out1 [CR/LF]	
Response Example: EDID_R OUT1 block0 {xxxxxxx} [CR/LF] EDID_R OUT1 block1 {xxxxxxx} [CR/LF] -----read edid ok or EDID_R OUT1 error[CR/LF] --- check sum Error or EDID_R OUT1 unconnect[CR/LF]---sink unconnect	

2.12 USB C Settings

2.12.1 Set USBC4 DP Mode

Set USBC4 DP Mode	
Command structure: SET USBC4_DM prm[CR/LF]	Note: prm= {SST, MST}
Response structure: USBC4_DM prm [CR/LF]	
Command Example: SET USBC4_DM SST[CR/LF]	
Response Example: USBC4_DM SST [CR/LF]	

2.12.2 Get USBC4 DP Mode

Get USBC4 DP Mode	
Command structure: GET USBC4_DM [CR/LF]	Note: prm= {SST, MST}
Response structure: USBC4_M prm [CR/LF]	
Command Example: GET USBC4_DM [CR/LF]	
Response Example: USBC4_M MST [CR/LF]	

2.12.3 Set USBC4 MST Mode

Set USBC4 MST Mode	
Command structure: SET USBC4_STRA prm[CR/LF]	Note: prm= {MODE1, MODE2} MODE1:one usbc + two hdmi MODE2:two usbc + One hdmi
Response structure: USBC4_STRA prm [CR/LF]	
Command Example: SET USBC4_STRA MODE1[CR/LF]	
Response Example: USBC4_STRA MODE1 [CR/LF]	

2.12.4 Get USBC4 MST Mode

Get USBC4 MST Mode	
Command structure: GET USBC4_STRA [CR/LF]	Note: prm= {MODE1, MODE2} MODE1:one usbc + two hdmi MODE2:two usbc + One hdmi
Response structure: USBC4_STRA prm [CR/LF]	
Command Example: GET USBC4_STRA [CR/LF]	
Response Example: USBC4_STRA MODE1 [CR/LF]	

2.13 Log Settings

2.13.1 Set Log Debug Mode

Set Log Debug Mode	
Command structure: SET DBG prm[CR/LF]	Note: prm= {off, on}
Response structure: DBG prm [CR/LF]	
Command Example: SET DBG on[CR/LF]	
Response Example: DBG on [CR/LF]	

2.13.2 Get Log Debug Mode

Get Log Debug Mode	
Command structure: GET DBG [CR/LF]	Note: prm= {off}
Response structure: ASW DBG [CR/LF]	
Command Example: GET DBG [CR/LF]	
Response Example: DBG off [CR/LF]	

2.14 GPIO & RELAY

2.14.1 Get the Amplifier Mode

Get the Amplifier Mode	
Command structure: GET GPIO_TYPE prm1[CR/LF]	Note: prm1 = {1, 2, 3, 4}; prm2 = {IN, OUT};
Response structure: GPIO_TYPE prm1 prm2[CR/LF]	
Command Example: GET GPIO_TYPE 1[CR/LF]	
Response Example: GPIO_TYPE 1 IN[CR/LF]	

2.14.2 Set the Amplifier Mode

Set the Amplifier Mode	
Command structure: SET GPIO_TYPE prm1 prm2[CR/LF]	Note: prm1 = {1, 2, 3, 4}; prm2 = {IN, OUT};
Response structure: GPIO_TYPE prm1 prm2[CR/LF]	
Command Example: SET GPIO_TYPE 1[CR/LF]	
Response Example: GPIO_TYPE 1 IN[CR/LF]	

2.14.3 Set the Amplifier Configuration

Set the Amplifier Configuration	
Command structure: SET GPIO_IN_CTL prm1 prm2[CR/LF]	Note: prm1 = {1, 2, 3, 4}; prm2 = {high, low}
Response structure: GPIO_IN_CTL prm1 prm2[CR/LF]	
Command Example: SET GPIO_IN_CTL 1 HIGH[CR/LF]	
Response Example: GPIO_IN_CTL 1 HIGH[CR/LF]	

2.14.4 Get the Amplifier Configuration

Get the Amplifier Configuration	
Command structure: GET GPIO_IN_CTL prm1[CR/LF]	Note: prm1 = {1, 2, 3, 4}; prm2 = {high, low}
Response structure: GPIO_IN_CTL prm1 prm2[CR/LF]	
Command Example: GET GPIO_IN_CTL 1[CR/LF]	
Response Example: GPIO_IN_CTL 1 HIGH[CR/LF]	

2.14.5 Set GPIO OUT Configuration

Set GPIO OUT Configuration	
Command structure: SET GPIO_OUT_CTL prm1 prm2 prm3[CR/LF]	Note: prm1 = {1, 2, 3, 4}; prm2 = {push-pull, open-drain}; prm3 = {high, low}
Response structure: GPIO_OUT_CTL prm1 prm2 prm3[CR/LF]	
Command Example: SET GPIO_OUT_CTL 1 PUSH-PULL HIGH[CR/LF]	
Response Example: GPIO_OUT_CTL 1 PUSH-PULL HIGH[CR/LF]	

2.14.6 Get GPIO OUT Configuration

Get GPIO OUT Configuration	
Command structure: GET GPIO_OUT_CTL prm1[CR/LF]	Note: prm1 = {1, 2, 3, 4}; prm2 = {push-pull, open-drain}; prm3 = {high, low}
Response structure: GPIO_OUT_CTL prm1 prm2 prm3[CR/LF]	
Command Example: GET GPIO_OUT_CTL 1[CR/LF]	
Response Example: GPIO_OUT_CTL 1 PUSH-PULL HIGH[CR/LF]	