



AVARRO 0E-HDMIMX4 API Command Set HDMI Switcher User Guide

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AVARRO 0E-HDMIMX4 API Command Set HDMI Switcher



RS232 Default Setting

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

About Telnet Connection

Before the process of sending the telnet command, shall make telnet connection to the corresponding device.

The form of telnet command is as follow:

- **telnet ip (port)**
- **ip:** The unit's IP address.
- **port:** The unit's port number, this is non-required on some Telnet control tools or platforms. If required, port number is 23 by default.

Example: If the unit's IP address is 192.168.11.143,
The telnet command is telnet 192.168.11.143

Command

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 number 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.

No.	Description	Command	Example
Normal switch case			
		Command: SET SW in out<CR><LF> >	Command: SET SW hdmiin1 hdmiout2<CR><LF>

		Return: SW in out<CR><LF>	Return: SW hdmiin1 hdmiout2<CR><LF>
1	Switch Input for Output	Parameter: in = {hdmiin1, hdmiin2...hdmiin4}; out = {hdmiout1, hdmiout2...hdmiout4};	Description: Switch input 1 for h dmi output 2
		Description: SW is short for Switch Switch one input source for one output sink	
		Command: SET SW in all<CR><LF>	Command: SET SW hdmiin1 all<CR><LF>
2	Switch indicate input for all output	Return: SW in all <CR><LF> Parameter: in = { hdmiin1, hdmiin2...hdmiin4}; all = {all};	Return: SW hdmiin1 all<CR><LF> Description: Switch input1 for all output sink
		Description: SW is short for Switch Switch one input source for all output sink	

No.	Description	Command	Example
		Command: GET MP out<CR><LF>	Command: GET MP hdmiout1<CR><LF>
3	Get which input mapping to the indicate Output	Return: Mp in out<CR><LF> Parameter: in = {hdmiin1, hdmiin2...hdmiin4}; out = {hdmiout1, hdmiout2...hdmiout4};	Return: MP hdmiin2 hdmiout1<CR><LF> Description: Get which input mapping to output 1
		Description: MP is short for mapping Get which input mapping to the indicate Output	

		Command: GET MP all<CR><LF>	Command: GET MP all <CR><LF>
4	Get which output mapping to all input	Return: MP in out<CR><LF> MP in out<CR><LF> Parameter: in = {hdmiin1, hdmiin2...hdmiin4}; out = {hdmiout1, hdmiout2...hdmiout4}; all = {all};	Return: MP hdmiin1 hdmiout1<CR>... MP hdmiin2 hdmiout2<CR><LF> Description: Get which output mapping to all input
		Description: MP is short for mapping Get which output mapping to all input	

No.	Description	Command	Example
CEC Control			

		Command: SET CEC_PWR out prm <CR><LF>	Command: SET CEC_PWR hdmiout1 on<CR><LF>
1	Set CEC POWER ON/OFF	Return: CEC_PWR out prm<CR><LF> Parameter: prm = {on, off} out = {hdmiout1, hdmiout2...hdmiout4, all}	Return: CEC_PWR hdmiout1 on<CR><LF> Description: Set sink hdmi output 1 power on
		Description: Set sink power on or off	
		Command: SET AUTOCEC_FN out prm<CR><LF>	Command: SET AUTOCEC_FN hdmiout1 on<CR><LF>
2	Set CEC AUTO POWER ON/OFF	Return: AUTOCEC_FN out prm<CR><LF> Parameter: prm = {on, off} out = {hdmiout1, hdmiout2...hdmiout4};	Return: AUTOCEC_FN hdmiout1 on<CR><LF> Description: Set sink hdmi output 1 auto power ON

		Description: Set sink auto power Function ON or OFF	
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No.	Description	Command	Example
		Command: GET AUTOCEC_FN out <CR><LF>	Command: GET AUTOCEC_FN hdmiout1<CR><LF>
		Return: AUTOCEC_FN out prm<CR> <LF>	Return: AUTOCEC_FN on
3	Get CEC AUTO POWER ON/OFF Status	Parameter: prm = {on, off} out = {hdmiout1, hdmiout2...hdmiout4};	Description: Get Sink auto power status, and the status is ON.

		Description: Get Sink auto power Function ON or OFF Status. Default: Off	
		Command: SET AUTOCEC_D out prm<CR><LF>	Command: SET AUTOCEC_D hdmiout1 2<CR><LF>
4	Set CEC POWER Delay Time	Return: AUTOCEC_D out prm<CR><LF> Parameter: out = {hdmiout1,hdmiout2...hdmiout4}; prm = {1,2,3...},// according to the actual time counter,1 means 1 minute ,2 means 2 minutes, Default wait time is 2 minutes, Max wait time is 30 minutes.	Return: AUTOCEC_D hdmiout1 2<CR><LF> Description: when no active signal to hdmi1, 2 minutes later, the unit will auto power off.
		Description: AUTOCEC_D is short for CEC auto Power Delay Timing	

No.	Description	Command	Example
		Command: GET AUTOCEC_D out <CR><LF>	Command: GET AUTOCEC_D h dmiout1 <CR><LF>
		Return: AUTOCEC_D out prm<CR><LF>	Return: AUTOCEC_D hdmiout1 2 <CR><LF>
5	Get CEC POWER Delay Time Status	Parameter: out = {hdmiout1,hdmiout2...hdmiout4}; prm = {1,2,3,...} // according to the actual time counter, 1 means 1 minute, 2 means 2 minutes, Default wait time is 2 minutes, Max wait time is 30 minutes.	Description: Get hdmi1 auto power delay time, the result is 2 minutes
		Description: AUTOCEC_D is short for CEC auto Power Delay Timing	
		Default: 2	

No.	Description	Command	Example
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HDCP

		Command: SET HDCP_S in prm<CR><LF>	Command: SET HDCP_S hdmiin1 on<CR><LF>
1	Set Input HDCP support ON/OFF	Return: HDCP_S in prm<CR><LF> Parameter: prm = {on, off} in = {hdmiin1, hdmiin2...hdmiin4}	Return: HDCP_S hdmiin1 on<CR><LF> Description: Set hdmi input 1 hdcp support on
		Description: HDCP_S will control source hdcp support on or off	
		Command: GET HDCP_S in <CR><LF>	Command: GET HDCP_S hdmiin1<CR><LF>
		Return: HDCP_S in prm<CR><LF>	Return: HDCP_S hdmiin1 on<CR><LF>
2	Get Input HDCP support ON/OFF Status	Parameter: prm = {on, off} in = {hdmiin1, hdmiin2...hdmiin4}	Description: Get hdmi1 hdcp support on or off status, and the result is on

		Description: HDCP_S is short for H DCP support	
		Default: on	

No.	Description	Command	Example
EDID			

1	Set Input EDID	Command: SET EDID in prm<CR><LF> Return: EDID in prm<CR><LF> Parameter: in = {hdmiin1, hdmiin2...hdmiin4}; pr m = {1 ~12} 01: Copy form output 1 02: Copy form output 2 03: Copy form output 3 04: Copy form output 4 05 : 4K@60Hz 5.1ch audio With HDR 06: 4K@60Hz 2.0ch audio With HDR 07: 4K@30Hz 7.1ch audio With HDR 08: 4K@30Hz 5.1ch audio With HDR 09: 4K@30Hz 2.0ch audio With HDR 10: 4K@30Hz/8bit only 2.0ch audio Without HDR 11: 1080P@60Hz 2.0ch audio ... 12: Smart EDID	Command: SET EDID hdmiin1 10<CR><LF> Return: EDID hdmiin1 10<CR><LF> Description: Set in1 EDID Fix 4 K@30Hz/8bit only 2.0ch audio W ithout HDR
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		Description: Set Input EDID	
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No.	Description	Command	Example
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2	Get All Input EDID status	Command: GET EDID all <CR><LF> Return: EDID in prm<CR> EDID in prm<CR> EDID in prm<CR><LF> Parameter: in = {hdmiin1, hdmiin2...hdmiin4}; prm = {1 ~13} 01: Copy form output 1 02: Copy form output 2 03: Copy form output 3 04: Copy form output 4 05 : 4K@60Hz 5.1ch audio With HDR 06: 4K@60Hz 2.0ch audio With HDR 07: 4K@30Hz 7.1ch audio With HDR 08: 4K@30Hz 5.1ch audio With HDR 09: 4K@30Hz 2.0ch audio With HDR 10: 4K@30Hz/8bit only 2.0ch audio Without HDR 11: 1080P@60Hz 2.0ch audio ... 12: Smart EDID 13: EDID Write	Command: GET EDID all <CR><LF> Return: EDID hdmiin1 01<CR> EDID hdmiin2 02<CR> EDID hdmiin3 03<CR><LF> Description: Get all input EDID Status
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		Description: Get all input EDID Status	
		Default: 5	

No.	Description	Command	Example
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3	Get one input EDID Status	Command: GET EDID in <CR><LF> Return: EDID in prm<CR><LF> Parameter: in = {hdmiin1, hdmiin2...hdmiin4}; prm = {1 ~13} 01: Copy form output 1 02: Copy form output 2 03: Copy form output 3 04: Copy form output 4 05 : 4K@60Hz 5.1ch audio With HDR 06: 4K@60Hz 2.0ch audio With HDR 07: 4K@30Hz 7.1ch audio With HDR 08: 4K@30Hz 5.1ch audio With HDR 09: 4K@30Hz 2.0ch audio With HDR 10: 4K@30Hz/8bit only 2.0ch audio Without HDR 11: 1080P@60Hz 2.0ch audio ... 12: Smart EDID 13: EDID Write	Command: GET EDID hdmiin1<CR><LF> Return: EDID hdmiin1 10<CR><LF> Description: Get in1 edid status, and the status is Fix 4K@30Hz/8 bit only 2.0ch audio Without HDR
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		Description: Get one input EDID Sta tus	
		Default: 5	

No.	Description	Command	Example
System Info			
		Command: RESET<CR><LF>	Command: RESET<CR><LF>
1	Factory reset	Return: RESET<CR><LF>	Return: ESET<CR><LF>

		Description: Factory reset	Description: Factory reset all board
		Command: REBOOT<CR><LF>	Command: REBOOT<CR><LF>
2	System reboot	Return: REBOOT<CR><LF>	Return: REBOOT<CR><LF>
		Description: System reboot	Description: System reboot
		Command: help<CR><LF>	Command: help<CR><LF>
3	Get the API list		
		Description: Get the API list	Description: Get the API list
		Command: SET IP MODE pcm<CR><LF>	Command: SET IP MODE dhcp<CR><LF>
		Return: IMODE pcm <CR><LF>	Return: IP MODE dhcp <CR><LF>

4	Set IP Mode	Parameter: pcm= {static, dhcp}	Description: Set IP mode is dhcp
		Description: Set IP mode	
		Default: DHCP	

No.	Description	Command	Example
		Command: GET IP MODE<CR><LF>	Command: GET IP MODE<CR><LF>
		Return: IP MODE pcm <CR><LF>	Return: IP MODE dhcp <CR><LF>
5	Get IP Mode	Parameter: pcm= {static, dhcp}	Description: IP mode is dhcp
		Description: Get IP mode	
		Default: DHCP	
		Command:	Command:
		SET IPADDR	SET IPADDR
		xx.xx.xx.xx	192.168.1.4
		xx.xx.xx.xx	255.255.255.0
		xx.xx.xx.xx<CR><LF>	192.168.1.1<CR><LF>

			>
		Return:	
		IPADDR IP:xx.xx.xx.xx	Return:
6	SET IP address	MASK: xx.xx.xx.xx GATE: xx.xx.xx.xx<CR><LF>	IPADDR IP:192.168.1.4 MASK:255.255.255.0
			GATE:192.168.1.1[<
		Description:	CR><LF>
		SET IP address	
			Description:
			Set IP address is
			192.168.1.4, MASK is
			255.255.255.0,
			GATE is 192.168.1.1

No.	Description	Command	Example
		Command: GET IPADDR<CR><LF>	Command: GET IPADDR<CR><LF>

7	GET IP address	Return: IPADDR IP:xx.xx.xx.xx MASK: xx.xx.xx.xx GATE: xx.xx.xx.xx<CR><LF> Description: GET IP address	Return: IPADDR IP:192.168.1.4 MASK:255.255.255.0 GATE:192.168.1.1<CR><LF>
			Description: Get IP address is 192.168.1.4, MASK is 255.255.255.0, GATE is 192.168.1.1
Update info			
		Command: GET VER<CR><LF>	Command: GET VER<CR><LF>
1	Get selected target firmware version	Return: VER prm<CR><LF> Parameter: prm = {...}// according to actual firmware version Description: Get selected target firmware version	Return: MX0404_N201_000 VER 1.0, ARM VER 1.0<CR><LF> Description: Get all module firmware version
		Command: UPG [prm] <CR><LF>	Command: UPG MASTER<CR><LF>
2	Upgrade module	Return: UPG [prm] <CR><LF> Parameter: prm= {MASTER, ARM}	Return: UPG MASTER<CR><LF>

		Description: Upgrade module	Description: upgrade module
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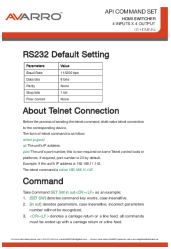
No.	Description	Command	Example
Preset scene			
		Command: SAVE PRESET prm<CR><LF>	Command: SAVE PRESET 1<CR><LF>
1	Save Preset Scene	Return: PRESET prm<CR><LF>	Return: PRESET 1<CR><LF>
		Parameter: prm = {1,2,3}//	Description: Save preset scene
		Description: Save Preset Scene	
		Command: RESTORE PRESET prm<CR><LF>	Command: RESTORE PRESET 1<CR><LF>
		Return: PRESET prm<CR><LF>	Return: PRESET 1<CR><LF>
2	Restore Preset Scene	Parameter: prm = {1,2,3}// Description: Restore Preset Scene	Description: Restore preset scene
		Default: mp hdmiin1 hdmiout1 mp hdmiin2 hdmiout2 mp hdmiin3 hdmiout3 mp hdmiin4 hdmiout4	

No.	Description	Command	Example
Audio			
		Command: SET MUTE out pcm<CR><LF>	Command: SET MUTE audioout1 on<CR><LF>
		Return: MUTE out pcm<CR><LF>	Return: MUTE audioout1 on<CR><LF>
1	Set Audio Output mute	Parameter: pcm = {on, off}; //on means mute; off means unmute out = {audioout1, audioout2,...audioout4, all};	Description: Set audioout1 mute on
		Description: Set Audio mute or not mute	
		Command: GET MUTE out<CR><LF>	Command: GET MUTE audioout1<CR><LF>

		Return: MUTE out pcm<CR><LF>	Return: MUTE audioout1 off<CR><LF>
2	Get Audio Output mute status	Parameter: pcm = {on, off};;on means mute; off means unmute out = {audioout1, audioout2,...audioout4, all};	Description: Get Audio Output mute status.
		Description: Get Audio Output mute status	
		Default: off	

No.	Description	Command	Example
Scaler			
		Command: SET SCALER out pcm<CR><LF>	Command: SET SCALER hdmiout1 on<CR><LF>
	Set video Output scaler	Return: SCALER out pcm<CR><LF> Parameter: pcm = {on, off}; //on means scaler; off means not scaler out = {hdmiout1, hdmiout2,...hdmiout4, all }; Description: Set Video scaler or not scaler	Return: SCALER hdmiout1 on<CR><LF> Description: Set hdmiout1 scaler on
		Command: GET SCALER out<CR><LF>	Command: GET SCALER hdmiout1<CR><LF>
		Return: SCALER out pcm<CR><LF>	Return: SCALER hdmiout1 on<CR><LF>
2	Get video Output scaler status	Parameter: pcm = {on, off}; //on means mute; off means unmute out = {hdmiout1,hdmiout2,... hdmiout4, all};	Description: Get video Output scaler status.
		Description: Get video Output scaler status	
		Default: on	

Documents / Resources

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References

-  [AVARRO](#)

Manuals+.