

EGE-6UHD2-848AL

18Gbps 8x8 HDMI Matrix with ARC Function

g<u>eratech</u>* EGE-6UHD2-848AL 8x8 HDMI 2.0 18Gbpt Matrix Switcher

OUTPUT: 12345678

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 2
 4
 5
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 7

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EGE-6UHD2-848AL 18Gbps 8x8 HDMI Matrix with ARC Function

Thank you for purchasing this product

For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

Surge protection device recommended

This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, lighting strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the life of your equipment.

Table of Contents

1. Introduction	1
2. Features	1
3. Package Contents	1
4. Specifications	2
5. Operation Controls and Functions	3
6. IR Remote	5
7. IR Cable Pin Assignment	6
8. EDID Management	7
9. Web GUI User Guide	9
10. RS-232 Control Command	
11. Application Example	23
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EGE-6UHD2-848AL 18Gbps 8x8 HDMI Matrix with ARC Function

1. Introduction

The 18Gbps 8x8 HDMI Matrix supports the transmission of video (up to 4K2K@60Hz YUV 4:4:4) and multi-channel high resolution digital audio from 8 HDMI sources to 8 HDMI displays. Audio de-embedded to analog and coaxial audio is supported from 8 HDMI output ports. While HDMI output ARC function is enabled, the ARC audio from HDMI display devices will be extracted to coaxial audio output. Each HDMI output of this 8x8 HDMI Matrix supports 4K2K to 1080P downscaler independently. Control is via front panel buttons, IR remote, RS-232, LAN and Web GUI.

2. Features

- · HDMI 2.0b, HDCP 2.2 and HDCP 1.4 compliant
- · Video resolution up to 4K2K@60Hz (YUV 4:4:4) on all HDMI ports
- · Support 18Gbps video bandwidth
- Dolby Vision, HDR10+ and HLG are supported.
- Support 4K->1080P Down Scaler for each output port
- HDMI audio pass-through up to 7.1CH HD audio (LPCM, Dolby TrueHD and DTS-HD Master Audio)
- · Audio de-embedded is supported via analog and coax ports
- · ARC, CEC and smart EDID management are supported
- 1U rack mounted design with front panel OLED display
- · Control via front panel buttons, IR remote, RS-232, LAN and Web GUI

3. Package Contents

- 1 x 18Gbps 8 x 8 HDMI Matrix
- 1 x 12V/5A Power Adapter
- · 1 x IR Remote
- 1 x IR Receiver cable (1.5 meters)
- 1 x RS-232 serial cable (1.5 meters, male to female head)
- 2 x Mounting Ear
- 1 x User Manual

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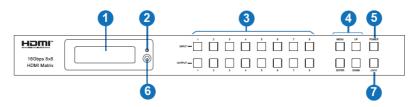
4. Specifications

Technical							
HDMI Compliance	HDMI 2.0b						
HDCP Compliance	HDCP 2.2 and H	IDCP 2.2 and HDCP 1.4					
Video Bandwidth	18Gbps						
Video Resolution	Up to 4K2K@50/	60Hz (4:4:4)					
Color Space	RGB, YCbCr 4:4	:4/4:2:2/4:2:0					
Color Depth	8-bit, 10-bit, 12-b	-bit, 10-bit, 12-bit					
HDMI Audio Formats (Pass-through)		Dolby Digital, DTS 5. TS-HD Master Audio	1, Dolby Digital+, , Dolby Atmos, DTS:X				
Coax Audio Formats	LPCM 2.0, Dolby	/ Digital / Plus, DTS 5	5.1				
L/R Audio Formats	PCM2.0	-					
HDR formats	HDR10,HDR10+	,Dolby Vision, HLG					
ESD Protection	Human-body Model: ±8kV (Air-gap discharge) , ±4kV (Contact discharge)						
Connection							
Input Ports	8×HDMI Type A [19-pin female] 1×IR EXT [3.5mm Stereo Mini-jack]						
Output Ports	8×HDMI Type A [19-pin female] 8×Coax Audio (RCA) 8×L/R Audio [3.5mm Stereo Mini-jack]						
Control Ports	1×TCP/IP [RJ45] 1×RS-232 [D-Sub 9]						
Mechanical		-					
Housing	Metal Enclosure						
Color	Black						
Dimensions	TX: 440mm (W)×	<200mm (D)×44.5mm	ו (H)				
Weight	TX: 2.8kg						
Power Supply	Input: AC 100 - 2 Output: DC 12V/		CE/FCC/ULcertified)				
Power Consumption	43W	,	,				
Operating Temperature	-10°C ~ 45°C / 14	4°F ~ 113°F					
Storage Temperature	-20°C ~ 60°C / -4	1°F ∼ 140°F					
Relative Humidity	20~90% RH (nor	n-condensing)					
Resolution / Cable length	4K60 - Feet / Meters	4K30 - Feet / Meters	1080P60 - Feet / Meters				
HDMI IN / OUT	16ft / 5M	32ft / 10M	50ft / 15M				
The use of "Premium Hig	h Speed HDMI" c	able is highly recomr	mended.				

EGE-6UHD2-848AL 18Gbps 8x8 HDMI Matrix with ARC Function

5. Operation Controls and Functions

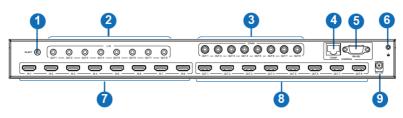
Front Panel



NO.	Name	Function Description
1	OLED screen	Display matrix switching status, input / output port, EDID, Baud rate, IP Address.
2	Power LED	The LED will illuminate in green when the product is connected to power supply, and red when the product is on standby.
3	Input / Output buttons	You need to press an output button (1~8) firstly and then press an input button (1~8) to select the corresponding input source for the output port.
4	MENU / ENTER / UP /DOWN	 (DEDID Check:On the initial OLED display screen, press "MENU" button to enter the Matrix switching state interface, then press "UP/DOWN" button to check the current EDID information of each HDMI input port. (DEDID setting: On the initial OLED display screen, press "MENU" button to enter the EDID setting interface, press "UP/DOWN" button to select the required EDID, and press the "ENTER" button. A prompt "copy to input :" will appear. Then press "UP/DOWN" button to select the input port you need to set, and press "ENTER" button again to confirm. (Baud rate setting: On the initial OLED display screen, press "MENU" button to enter the Baud rate interface, and press "UP/DOWN" button to select the required Baud rate, finally press the "ENTER" button to select the required Baud rate, finally press the "ENTER" button to confirm the setting. (4) IP Address Check: On the initial OLED display screen, press "MENU" button to check the current IP address. Pressing the "MENU" button to check the current IP address.
5	POWER button	Long press the POWER button for 3 seconds to enter the standby mode, then short press it to wake up the device.
6	IR Window	IR receiver window, it only receives the IR remote signal from this product.
7	LOCK button	Short press the LOCK button to lock front panel buttons (Except the power button); Press it again to unlock.

EGE-6UHD2-848AL 18Gbps 8x8 HDMI Matrix with ARC Function

Rear Panel

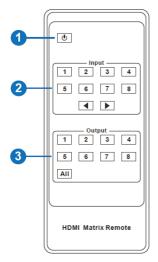


No.	Name	Function Description
1	IR EXT	If the IR receiver window of the unit is blocked or the unit is installed in a closed area out of infrared line of sight, the IR receiver cable can be inserted to the "IR EXT" port to receive the IR remote signal.
2	L/R OUT(1-8)	Analog audio output port, connect to an amplifier or speaker via a 3.5mm audio cable.
3	COAX OUT (1-8)	Coaxial audio output port, connect to audio output device such as audio amplifier via a coaxial cable.
4	TCP/IP port	TCP/IP control port, connect to PC or router with an RJ45 cable.
5	RS-232 port	Connect to a PC or control system by D-Sub 9-pin cable to transmit RS-232 command.
6	GND	Connect the housing to the ground.
7	INPUT ports (1-8)	HDMI input ports , connect to HDMI source device such as DVD or set-top box with an HDMI cable.
8	OUTPUT ports (1-8)	HDMI output ports, connect to HDMI display device such as TV or monitor with an HDMI cable.
9	DC 12V	Connect to 12V/5A power adapter.

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6. IR Remote



• **Power on or Standby:** Power on the Matrix or set it to standby mode.

• Input 1/2/3/4/5/6/7/8: Select input source button.

◀ ►: Select the last or next input source button.

• Output 1/2/3/4/5/6/7/8 button: Select output source button.

All: Select all output source simultaneously. For example, when you press the "All" button and then press input "1" button, at this time the input "1" source will output to all display devices.

Operation instruction: You need to press the output button firstly and then press input button to select the corresponding input source. For example,

Press Output-X

(X means output button from 1 to 8, including "All" button)

Then press Input-Y

(Y means input button from 1 to 8)

The Matrix can be selected input and output source by using the IR remote. There are two ways to receive the IR remote signal.

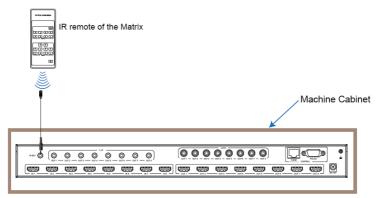
The first way: The IR window accepts the IR remote signal. When using the IR remote, the furthest distance is 7 meters and the angle is $\pm 45^{\circ}$. The diagram is shown as below:

18Gbps 8x8 HDMI Matrix	● ●	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	WDN/ UP POHD

IR remote of the Matrix

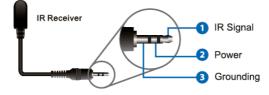
EGE-6UHD2-848AL 18Gbps 8x8 HDMI Matrix with ARC Function

The second way: If the IR receiver window of the Matrix is blocked or the Matrix is installed in a closed area out of infrared line of sight, the IR receiver cable can be inserted to the "IR EXT" port to receive the IR remote signal. The furthest distance of using the IR remote is 7 meters and the IR remote is directly faced to the IR receiver head. The diagram is shown as below.



7. IR Cable Pin Assignment







EGE-6UHD2-848AL 18Gbps 8x8 HDMI Matrix with ARC Function

8. EDID Management

This Matrix has 21 factory defined EDID settings, 2 user-defined EDID modes and 8 copy EDID modes. You can select defined EDID mode or copy EDID mode to input port through front panel buttons, RS-232 control or Web GUI.

On-panel button operation: On the initial OLED display screen, press "MENU" button to enter the EDID setting interface, press "UP/DOWN" button to select the required EDID, and press the "ENTER" button. A prompt "copy to input :" will appear. Then press "UP/DOWN" button to select the input port you need to set, and press "ENTER" button again to confirm this operation.

ASCII control operation: Connect the Matrix to PC with a serial cable, then open a Serial Command tool on PC to send ASCII command "s edid in x from z!" to set EDID. For details, please refer to "EDID Setting" in the ASCII command list of "10. RS-232 Control Command".

Web GUI Operation: Please check the EDID management in the "Input page" of "9. Web GUI User Guide".

Homi							
AL BUILDING NA IN SA AUGUAN	Input Setting						
Status	Inputs	Active	Nama	EDID			
	HDMI 1	0	Input1	1080P, Stereo Audio 2.0			
Video	HDMI 2		input2	1080P,Stereo Audio 2.0	~		
Input	HDMI 3	0	Input3				
Input	PIDMI 4		Input4	1080P,Stereo Audio 2.0			
Output	HDMI 5		Input5	1080P,Dolby/DTS 5.1			
	H DMI 6		Input6	1080P,HD Audio 7.1			
GEC	HDMI 7		Input7	1080I, Stereo Audio 2.0			
Network	HDMI 8		Input8	10801,Dolby/DTS 5.1			
				1080I.HD Audio 7.1	_		
System				3D.Stereo Audio 2.0			
	Load EDID to user memory	7					
	Select EDID File:			E-last			
	SELECT ELDILD FILE:	04		Destination: User 1	V	lptoad	
	DownLoad EDID to your c	omputer					

EGE-6UHD2-848AL 18Gbps 8x8 HDMI Matrix with ARC Function

The defined EDID setting list of the product is shown as below:

EDID Mode	EDID Description
1	1080p, Stereo Audio 2.0
2	1080p, Dolby/DTS 5.1
3	1080p, HD Audio 7.1
4	1080i, Stereo Audio 2.0
5	1080i, Dolby/DTS 5.1
6	1080i, HD Audio 7.1
7	3D, Stereo Audio 2.0
8	3D, Dolby/DTS 5.1
9	3D, HD Audio 7.1
10	4K2K30_444, Stereo Audio 2.0
11	4K2K30_444, Dolby/DTS 5.1
12	4K2K30_444, HD Audio 7.1
13	4K2K60_420, Stereo Audio 2.0
14	4K2K60_420, Dolby/DTS 5.1
15	4K2K60_420, HD Audio 7.1
16	4K2K60_444, Stereo Audio 2.0
17	4K2K60_444, Dolby/DTS 5.1
18	4K2K60_444, HD Audio 7.1
19	4K2K60_444, Stereo Audio 2.0 HDR
20	4K2K60_444, Dolby/DTS 5.1 HDR
21	4K2K60_444, HD Audio 7.1HDR
22	USER1
23	USER2
24	Copy from hdmi output 1
25	Copy from hdmi output 2
26	Copy from hdmi output 3
27	Copy from hdmi output 4
28	Copy from hdmi output 5
29	Copy from hdmi output 6
30	Copy from hdmi output 7
31	Copy from hdmi output 8



EGE-6UHD2-848AL 18Gbps 8x8 HDMI Matrix with ARC Function

9. Web GUI User Guide

The Matrix can be controlled by Web GUI. The operation method is shown as below:

Step 1: Get the current IP Address.

The default IP address is 192.168.1.100. You can get the current Matrix IP address in two ways:

The first way: You can get the IP address via panel buttons. On the initial OLED display, press "MENU" button to enter the IP interface, then press "UP/ DOWN" button to check the current IP address.

The second way: You can get the IP address via ASCII control. Send the command "r ipconfig!" through an ASCII Command tool, then you'll get the feedback information as shown below:

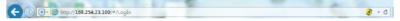
IP Mode: DHCP IP:192.168.62.109 Subnet Mask:255.255.255.0 Gateway:192.168.62.1 TCP/IP port:8000 Telnet port:23 Mac address:6c-df-fb-0c-b3-8e

IP:192.168.62.109 in the above figure is the IP Address of the Matrix (the IP address is variable, depending on what the specific machine returns).

For the details of ASCII control, please refer to "10. ASCII Control Command".

Step 2: Set the IP address of the PC to be in the same network segment with the Matrix.

Step 3: Input the IP address into your browser on the PC to enter Web GUI page.





EGE-6UHD2-848AL 18Gbps 8x8 HDMI Matrix with ARC Function

After entering the Web GUI page, there will be a Login page, as shown below:

Username: Password:	Admin	•	OGIN	
	18Geps 8x8 HDMI & M			

Select the Username from the list and enter the password. The default passwords are:

Username	User	Admin
Password	user	admin

After entering the password, click the "LOGIN" button and the following Status page will appear.

Status Page

The Status page provides basic information about the installed firmware version and the network settings of the device.

	8 HDMI Matrix - 18gbps Advanced		â Admin Log	sst
	Status			
	Model	HDP-MXB88DA		
- 1	Firmware Version	V1.00.20/V1.29		
	Hostname	IP-module-A0C09		
	IP Address	192.168.1.100		
	Subnet Mask	255.255.255.0		
k	Gateway	0.0.0.0		
`	MAC Address	6C.DF.FB.0A.0C.09		

EGE-6UHD2-848AL 18Gbps 8x8 HDMI Matrix with ARC Function

■ Video Page

	8x8 HDMI Matrix - 18gbps /	Vdvanced				A Admin	Log out
	Switch		Presets				
Status	Output	Input	Presets Name	Presets Set	Presets Save	Presets Clear	
	Output1	Input \sim	preset1	Set	Save	Clear	
Video	Output2	Input2 V	preset2	Set	Save	Clear	
input	Output3	Inpută 🗸 🗸	preset3	Set	Save	Clear	
edva	Output4	Input4 V	preset4	Set	Save	Clear	
Output	Output5	Input5 V	preset5	Set	Save	Clear	
	Output8	Input6 V	preset6	Set	Save	Clear	
CEC	Output7	Input7 \sim	preset7	Set	Save	Clear	
Network	Output8	Input8 ~	preset8	Set	Save	Clear	
		mpart					
System		Input2					
		Input3					
		Input4					
		Input5					
		Input6					
		Input7					
		Input8					

You can do the following operations on the Video page:

1) Output: The current device's OUTPUT port. You can select signal source for it.

2) Input: You can click the drop-down menu to select signal source for the corresponding OUTPUT port .

3) Presets Name: You can name the current scene with maximum length of 12 characters (Chinese name is unsupported).

4) Presets Set: You can restore the settings of the last saved audio-video matrix switching relationship.

5) Presets Save: You can save audio-video matrix switching relationship.

6) Presets Clear: You can clear the saved audio-video matrix switching relationship.

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Input Page

	8x8 HDMI Matrix - 18gbps Advance	bd			& Admin Log out	Poweron
наші	Input Setting					
Status	Inputs	Active	Nama	EDID		
Citatos	HDMI 1		input1	1080P,Stereo Audio 2.0		
Video	HDMI 2	0	input2	h080P, Stereo Audio 2.0		
Input	HDMI 3		Input3			
mpor	HDMI 4		Input4	1080P,Stereo Audio 2.0		
Output	HDMI 5		Input5	1080P,Dolby/DTS 5.1		
CEC	HDMI 6		input6	1080P,HD Audio 7.1		
GEG	HDMI 7	0	Input7	10801, Stereo Audio 2.0		
Network	HDMI 8		input8	10801,Dolby/DTS 5.1		
0				10801,HD Audio 7.1		
System				3D.Stereo Audio 2.0		
	Load EDID to user memory					
	Select EDID File: Browne	in the second		Select User 1	 Upload 	
	DownLoad EDID to your co	nputer		LAS UNLIGHT.		
	Select EDID File: HDMI IN1		Download			

You can do the following operations on the Input page:

1) Inputs: Input channel of the device.

2) Active: It indicates whether the channel is connected to a signal source.

3) Name: The input channel's name. You can modify it by entering the corresponding name (max length: 12 characters) in the input box (Chinese name is unsupported).

4) EDID: You can set the current channel's EDID. The specific operation is as follows:

Set EDID for the User

Click the "Browse" button, then select the bin file. If you select the wrong EDID file, there will be a prompt, as shown in the following figure:



Make sure to select the correct file, then you can check the name of the selected file. Select "User 1" or "User 2", then click "Upload". After successful setting, it will prompt as follows:

EGE-6UHD2-848AL

18Gbps 8x8 HDMI Matrix with ARC Function

Upload Successfull Confirm

Download the EDID File of the Corresponding Input Channel

Click the drop-down box of "Select EDID File" to select the corresponding input channel. Then click "Download" to download the corresponding EDID file.

Output Page

нэші.							
	Output Setting						
Status	Oxtputs	Cable	Name	Scaler Mode		ARC	Stream.
Video	Output 1	0	Output1	Bypass	~	CH CR.	
VILEO	Output 2		Output2			677 EN	007 GH
Input	Output 3		Output3	Bypass		CHE CN	007 094
	Output 4		Output4	4K -> 1080P		677 EN	DIF 01
Output	Output 5		Output5	AUTO		600 ER	are an
CEC	Output 6		Output6	Bypass		600 ED1	000 UN
	Output 7		Output7	Bypass		677 CN	arr - m
Network	Output 8		Output8	Bypass		C## CH	010 01

You can do the following operations on the Output page:

1) Outputs: Output channel of the device.

2) Name: The current output channel's name. You can modify it by entering the corresponding name (max length: 12 characters) in the input box (Chinese name is unsupported).

3) Cable: It indicates the connection status of output ports. When the output port is connected to the display, it shows green, otherwise, it shows gray.

4) Scalar Mode: Set the current output resolution mode.

- 5) ARC: Turn on/off the ARC function.
- 6) Stream: Turn on/off the output stream.

EGE-6UHD2-848AL 18Gbps 8x8 HDMI Matrix with ARC Function

■ CEC Page

	8x8 HDM	11 Matrix - 18gbps Adva	inced					🛦 senin	leg at Pa	-
			Input Cor	ntrol			Output Co	ntrol		
Status		Inputi	0		Ċ	Output1	0	Ð	Ø	
Video		Input2		*		Output2		4 9	+	
Input		Input3	4	۔ ب	•	Output3		-17		
Output		Input4				Output4				
CEC			=	Ŧ	C					
Network		Input5	м	►	м	Output5				
System	1	Input6	44		++	Output6				
	1	Input7				Output7				
	1	Input8	_	n ()	+	Output8				

You can perform CEC management on this page:

1) Input Control: You can control the operation of each input source by clicking the icons on the page.

2) Output Control: You can control the operation of each display, such as power on/off, volume +/-, active source switching.

LINDE	8x8 HDMI Matrix - 18ç	jbps Advanced		1	Annin Log out	Poweron
нэт	IP Settings					
Status	Hode	Static DHCP				
Video	IP Address		Gateway			
Output	Submit Mash		Tainst Part	23		
	Web Login Settin	123				
Network	Username	User Admin				
System	Old Password					
	New Password					
	Confirm Password					
	Product Model	HDP-MXB88DA				
			Set Network Defaults Save			

Network Page

EGE-6UHD2-848AL 18Gbps 8x8 HDMI Matrix with ARC Function

Set the Default Network

Click "Set Network Defaults", there will be a prompt, as shown in the following figure:



Click "OK" to search the IP Address again, as shown in the following figure:

нәті	hish HOME Marric - Highps Advanced Legant Free	r an
	IP Settings	
Status Video	Note Clark DHGP	
Input	P Address 152 108 1 100 Galeway 0.8.0.0	
Output	Sahut Bula 255 255 255 8	
CEC	Web Login Settings	
System	Vermanne User Admin	
	extransit Searching IP	
	Bee Present	
	Productifiedd HDP-MXEBSDA	
	Get Network Extents Seare	

After searching is completed, it will switch to the login page, the default network setting is completed.



EGE-6UHD2-848AL 18Gbps 8x8 HDMI Matrix with ARC Function

Modify Username

Click the "User" button, enter the correct Old Password, New Password, and Confirm Password, then click "Save". After successful modification, there will be a prompt, as shown in the following figure:

modify successfully
Confirm

Note: Input rules for changing passwords:

- (1) The password can't be empty.
- (2) New Password can't be the same as Old Password.
- (3) New Password and Confirm Password must be the same.

Modify Network Setting

Modify the Mode/IP Address/Gateway/Subnet Mask/Telnet Port as required, click "Save" to save the settings, then it will come into effect. After modification, if the Mode is "Static", it will switch to the corresponding IP Address; if the Mode is "DHCP", it will automatically search and switch to the IP Address assigned by the router.

IP Settings			
Mode	Static DHCP		
IP Address	192.168.1.100	Gateway	
Subnet Mask		Teinet Port	23

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System Page

	8x8 HDMI Matrix - 18gbps	s Advanced					3	▲ Konen	Lagout	Power on
нэші	Panel Lock									
Status	OFF	CN								
Video	Веер									
Input	OPT	CN								
Output	LCD									
CEC										
Network	OFF	Always on	106	30s	606					
System	Serial Baud Rate									
	4800	9600	19200	38400	67600	115200				
	Firmware Update									
	Dowos								Updak	
	Factory Reset								Reset	
	Reboot								Reboo	

1) Panel Lock: Click "Panel Lock" to lock/unlock panel buttons. "On" indicates that panel buttons are unavailable; "Off" indicates panel buttons are available.

2) Beep: Click "Beep" to turn on/off the beep.

3) LCD: You can turn on/off the LCD, and set the turn-on time (15s/30s/60s).

4) Serial Baud Rate: Click the value to set the Serial Baud Rate.

5) Firmware Update: Click "Browse" to select the update file, then click "Update" to complete firmware update.

6) Factory Reset: You can reset the unit to factory defaults by clicking "Reset".

7) Reboot: You can reboot the unit by clicking "Reboot".

Note: After reset/reboot, it will switch to the login page.



EGE-6UHD2-848AL 18Gbps 8x8 HDMI Matrix with ARC Function

10. RS-232 Control Command

The product also supports RS-232 control. You need a serial cable with RS-232 male head and DB9 transfer USB male head. The RS-232 head of the serial cable is connected to the RS-232 control port with DB 9 at the rear of the Matrix, and the USB head of the serial cable is connected to a PC. The connection method is as follows:



Then, open a Serial Command tool on PC to send ASCII command to control the Matrix. The ASCII command list about the product is shown as below.

	ASCII Command									
Serial port protocol. Baud rate: 115200, Data bits: 8bit, Stop bits:1, Check bit: 0										
x - Parameter 1 y - Parameter 2 ! - Delimiter	y - Parameter 2									
Command Code	Function Description	Example	Feedback	Default Setting						
Power										
s power z!	Power on/off the device,z=0~1 (z=0 power off, z=1 power on)	s power 1!	Power on System Initializing Initialization Finished! power off	power on						
r power!	Get current power state	r power!	power on/power off							
s reboot!	Reboot the device	s reboot!	Reboot System Initializing Initialization Finished! FW version x.xx.xx							
System Setup										
help!	List all commands	help!								
r type!	Get device model	r type!	HDP-MXB88DA							

EGE-6UHD2-848AL 18Gbps 8x8 HDMI Matrix with ARC Function

Command Code	Function Description	Example	Feedback	Default Setting
r status!	Get device current status	r status!	Get the unit all status: power, beep, lock, in/ out connection, video/ audio crosspoint, edid, scaler, network status	
r fw version!	Get Firmware version	r fw version!	MCU BOOT: Vx.xx.xx MCU APP: Vx.xx.xx WEB GUI: Vx.xx	
r link in x!	Get the connection status of the x input port, x=0~8(0=all)	r link in 1!	hdmi input 1: connect	
r link out y!	Get the connection status of the y output port, y=0~8(0=all)	r link out 1!	hdmi output 1: connect	
s reset!	Reset to factory defaults	s reset!	Reset to factory defaults System Initializing Initialization Finished! FW version x.xx.xx	
s beep z!	Enable/Disable buzzer function, z=0~1(z=0 beep off, z=1 beep on)	s beep 1!	beep on beep off	beep on
r beep!	Get buzzer state	r beep!	beep on / beep off	
s lock z!	Lock/Unlock front panel button, z=0~1 (z=0 lock off,z=1 lock on)	s lock 1!	panel button lock on panel button lock off	panel button lock off
r lock!	Get panel button lock state	r lock!	panel button lock on/off	
s lcd on time z!	Set LCD screen remain on time, z=0~4 (0:off, 1:always on, 2:15s, 3:30s, 4:60s)	s lcd on time 1!	lcd on 15 seconds	lcd on 30 seconds
r lcd mode!	Get the backlight status of lcd screen	r lcd mode!	Icd always on	
s save preset z!	Save switch state between all output port and the input port to preset z, z=1~8	s save preset 1!	save to preset 1	
s recall preset z!	Call saved preset z scenarios, z=1~8	s recall preset 1!	recall from preset 1	
s clear preset z!	Clear stored preset z scenarios, z=1~8	s clear preset 1!	clear preset 1	
r preset z!	Get preset z information, z=1~8	r preset 1!	video/audio crosspoint	
s logo1 *******	Set the logo name displayed on the first line of LCD screen,the max character is 16	s logo1 Initializing!	logo1:Initializing	
s logo2 *******	Set the logo name displayed on the second line of LCD screen,the max character is 16	s logo2 HDP-MXB88DA!	logo2 HDP-MXB88DA!	
s baud rate xxx!	Set the serial port baud rate of RS02 module, z=(115200,57600, 38400,19200,9600,4800)	s baud rate 115200!	Baudrate:115200	115200
r baud rate!	Get the serial port baud rate of RS02 module	r baud rate!	Baudrate:115200	
s id z!	Set the control ID of the product, z=000~999	s id 888!	id 888!	0
Output Setting				
s in x av out y!	Set input x to output y, x=1~8, y=0~8(0=all)	s in 1 av out 2!	input 1 -> output 2	PTP
r av out y!	Get output y signal status y=0~8(0=all)	r av out 0!	input 1 -> output 1 input 2 -> output 2 input 8 -> output 8	

EGE-6UHD2-848AL 18Gbps 8x8 HDMI Matrix with ARC Function

Feedback Command Code **Function Description** Example Default Setting Enable hdmi output 1 stream Disable hdmi output 1 Set output y stream on/off, y=0~8 s hdmi 1 stream 1 stream s hdmi y stream z! enable (0=all) z=0~1(0:disable, 1:enable) Enable hdmi all outputs s hdmi 0 stream 1 stream Disable hdmi all outputs stream Get output y stream status, Enable hdmi output 1 r hdmi v stream! r hdmi 1 streaml y=0~8(0=all) stream hdmi output 1 set to Set hdmi output y port output s hdmi 1 scaler 1! bypass mode hdmi all outputs scaler mode, y=0~8(0=all), s hdmi y scaler z! set to bypass z=1~3(1=bypass.2=4k->1080p. s hdmi 0 scaler 1! hdmi all outputs set to mode 3=Auto) bypass mode Get hdmi output y port output hdmi output 1 set to r hdmi v scaler! r hdmi 1 scaler ! mode v=0~8(0=all) bypass mode EDID Setting Set input x EDID from default EDID 2, x=0-8(0-all),z=1-31 1, 10800, Stereo Audio 2.0 2, 10800, Dolby/DTS 5.1 3, 10800, HD Audio 7.1 4, 10800, Stereo Audio 2.0 5, 10801, Dolby/DTS 5.1 9, 30, HD Audio 7.1 12, 4K2K30 444, Stereo Audio 2.0 11, 4K2K30 444, Stereo Audio 2.0 13, 4K2K30 444, Dolby/DTS 5.1 12, 4K2K30 444, Dolby/DTS 5.1 12, 4K2K30 444, Dolby/DTS 5.1 12, 4K2K30 444, Dolby/DTS 5.1 15, 4K2K60 420, Stereo Audio 2.0 17, 4K2K30 444, Dolby/DTS 5.1 18, 4K2K60 444, Doladio 7.1 18, 4K2K60 444, Doladio 7.1 19, 4K2K60 444, HD Audio 7.1 19, 4K2K60 444, Dolby/DTS 5.1 20, 4K2K60 444, Dolby/DTS 5.1 1080p,Stereo s edid in x from zl Audio 2.0 HDR 20, 4K2K60_444, Dolby/DTS 5.1 21, 4K2K60 444, HD Audio 7.1 21, 472, 102, ----, 12 HDR 22, User1 23, User2 24~31, copy from hdmi output 1~8 input 1 EDID: 4K2K60 444 Stereo Audio 2 0 input 2 EDID: 4K2K60 444 Get EDID status of the input x, r edid in x! r edid in 0! Stereo Audio 2 0 x=0~8(0=all input) input 3 EDID: 4K2K60 444 Stereo Audio 2 0 input 4 EDID: 4K2K60 444 Stereo Audio 2 0 r edid data hdmi vl Get the EDID data of the hdmi EDID: 00 FF FF FF FF edid data hdmi 1 FF FF 00 output y port, y=1~8 Audio Setting hdmi output 1 arc on Turn on/off ARC of HDMI output y, s hdmi 1 arc 1! hdmi output 1 arc off off s hdmi y arc z! v=0~8(0=all) hdmi all outputs arc on z=0~1(z=0,off,z=1 on)s hdmi 0 arc 11 hdmi all outputs arc off Get the ARC state of HDMI output r hdmi 1 arc! hdmi output 1 arc on r hdmi y arc! y, y=0~8(0=all)

EGE-6UHD2-848AL 18Gbps 8x8 HDMI Matrix with ARC Function

Command Code	Function Description	Example	Feedback	Default Setting
CEC Setting				
s cec in x on!	set input x power on by CEC, x=0~8(0=all input)	s cec in 1 on!	input 1 power on	
s cec in x off!	set input x power off by CEC, x=0~8(0=all input)	s cec in 1 off!	input 1 power off	
s cec in x menu!	set input x open menu by CEC, x=0~8(0=all input)	s cec in 1 menu!	input 1 open menu	
s cec in x back!	set input x back operation by CEC, x=0~8(0=all input)	s cec in 1 back!	input 1 back operation	
s cec in x up!	set input x menu up operation by CEC, x=0~8(0=all input)	s cec in 1 up!	input 1 menu up operation	
s cec in x down!	set input x menu down operation by CEC, x=0~8(0=all input)	s cec in 1 down!	input 1 menu down operation	
s cec in x left!	set input x menu left operation by CEC, x=0~8(0=all input)	s cec in 1 left!	input 1 menu left operation	
s cec in x right!	set input x menu right operation by CEC, x=0~8(0=all input)	s cec in 1 right!	input 1 menu right operation	
s cec in x enter!	set input x menu enter by CEC, x=0~8(0=all input)	s cec in 1 enterl	ilnput 1 menu enter operation	
s cec in x play!	set input x play by CEC, x=0~8(0=all input)	s cec in 1 play!	input 1 play operation	
s cec in x pause!	set input x pause by CEC, x=0~8(0=all input)	s cec in 1 pause!	ilnput 1 pause operation	
s cec in x stop!	set input x stop by CEC, x=0~8(0=all input)	s cec in 1 stop!	input 1 stop operation	
s cec in x rew!	set input x rewind by CEC, x=0~8(0=all input)	s cec in 1 rew!	input 1 rewind operation	
s cec in x mute!	set input x volume mute by CEC, x=0~8(0=all input)	s cec in 1 mute!	input 1 volume mute	
s cec in x vol-!	set input x volume down by CEC, x=0~8(0=all input)	s cec in 1 vol-!	input 1 volume down	
s cec in x vol+!	set input x volume up by CEC, x=0~8(0=all input)	s cec in 1 vol+!	input 1 volume up	
s cec in x ff!	set input x fast forward by CEC, x=0~8(0=all input)	s cec in 1 ff!	input 1 fast forward operation	
s cec in x previous!	set input x previous by CEC, x=0~8(0=all input)	s cec in 1 previous!	input 1 previous operation	
s cec in x next!	set input x next by CEC, x=0~8(0=all input)	s cec in 1 next!	input 1 next operation	
s cec hdmi out y on!	set output y power on by CEC, y=0~8(0=all output)	s cec hdmi out 1 on!	hdmi output 1 power on	
s cec hdmi out y off	set output y power off by CEC, y=0~8(0=all output)	s cec hdmi out 1 on!	hdmi output 1 power off	
s cec hdmi out y mute!	set output y volume mute by CEC, y=0~8(0=all output)	s cec hdmi out 1 mute!	hdmi output 1 volume mute	
s cec hdmi out y vol-!	set output y volume down by CEC, y=0~8(0=all output)	s cec hdmi out 1 vol-!	hdmi output 1 volume down	
s cec hdmi out y vol+!	set output y volume up by CEC, y=0~8(0=all output)	s cec hdmi out 1 vol+!	hdmi output 1 volume up	
s cec hdmi out y active!	set output y active source by CEC, y=0~8(0=all output)	s cec hdmi out 1 active!	hdmi output 1 active source	

EGE-6UHD2-848AL 18Gbps 8x8 HDMI Matrix with ARC Function

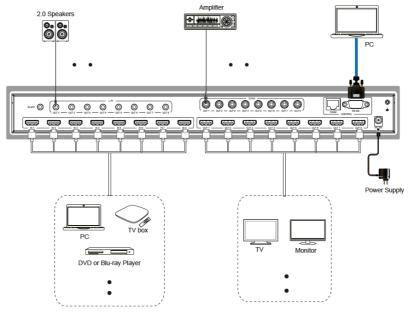
Command Code	Function Description	Example	Feedback	Default Setting
Network Setting				
r ipconfig!	Get the Current IP Configuration	r ipconfig!	IP Mode: Static IP: 192.168.1.72 Subnet Mask: 255.255.255.0 Gateway: 192.168.1.1 TCP/IP port=8000 Telnet port=10 Mac address: 00.1C.91.03.80:01	
r mac addr!	Get network MAC address	r mac addr!	Mac address: 00:1C:91:03:80:01	
s ip mode z!	Set network IP mode to static IP or DHCP, z=0~1 (z=0 Static, z=1 DHCP)	s ip mode 0!	Set IP mode:Static (Please use "s net reboot!" command or repower device to apply new config!)	
r ip mode!	Get network IP mode	r ip mode!	IP Mode: Static	
s ip addr xxx.xxx.xxx	Set network IP address	s ip addr 192.168.1.100!	Set IP address: 192.168.1.100 (Please use "s net reboot!" command or repower device to apply new configI) DHCP on, Device can't config static address, set DHCP off first.	
r ip addr!	Get network IP address	r ip addr!	IP address: 192.168.1.100	
s subnet xxx.xxx.xxx	Set network subnet mask	s subnet 255.255.255.01	Set subnet Mask: 255.255.255.0 (Please use "s net reboot!" command or repower device to apply new config!) DHCP on, Device can't config subnet mask, set DHCP off first.	
r subnet!	Get network subnet mask	r subnet!	Subnet Mask: 255.255.255.0	
s gateway xxx.xxx.xxx	Set network gateway	s gateway 192.168.1.1!	Set gateway: 192.168.1.1 Please use "s net reboot!" command or repower device to apply new config! DHCP on, Device can't config gateway, set DHCP off first.	
r gateway!	Get network gateway	r gateway!	Gateway:192.168.1.1	
s tcp/ip port x!	Set network TCP/IP port (x=1~65535)	s tcp/ip port 8000!	Set TCP/IP port:8000	
r tcp/ip port!	Get network TCP/IP port	r tcp/ip port!	TCP/IP port:8000	
s telnet port x!	Set network telnet port (x=1~65535)	s telnet port 23!	Set Telnet port:23	
r telnet port!	Get network telnet port	r telnet port!	Telnet port:23	

EGE-6UHD2-848AL

18Gbps 8x8 HDMI Matrix with ARC Function

Command Code	Function Description	Example	Feedback	Default Setting
s net reboot!	Reboot network modules	s network reboot!	Network reboot IP Mode: Static IP: 192.168.172 Subnet Mask: 255.255.255.05 Gateway: 192.168.1.1 TCP/IP port=8000 Telnet port=10 Mac address: 00.1C.91.03.80.01	

11. Application Example





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