

GEF-HDFST-MOD-16416-HD GEF-HDFST-MOD-16416-HDELR

User Manual Release A7





Important Safety Instructions

GENERAL SAFETY INFORMATION

- 1. Read these instructions.
- 2. Keep these instructions.
- 3. Heed all warnings.
- 4. Follow all instructions.
- 5. Do not use this product near water.
- 6. Clean only with a dry cloth.
- 7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8. Do not install or place this product near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11. Only use attachments/accessories specified by the manufacturer.
- 12. To reduce the risk of electric shock and/or damage to this product, never handle or touch this unit or power cord if your hands are wet or damp. Do not expose this product to rain or moisture.
- 13. Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15. Batteries that may be included with this product and/or accessories should never be exposed to open flame or excessive heat. Always dispose of used batteries according to the instructions.

RACK MOUNT SAFETY INFORMATION

- a. Maximum recommended ambient temperature: 40 °C (104 °F).
- b. Increase the air flow as needed to maintain the recommended temperature inside the rack.
- c. Do not exceed maximum weight loads for the rack. Install heavier equipment in the lower part of the rack to maintain stability.

Warranty Information

Gefen warrants the equipment it manufactures to be free from defects in material and workmanship.

If equipment fails because of such defects and Gefen is notified within two (2) years from the date of shipment, Gefen will, at its option, repair or replace the equipment, provided that the equipment has not been subjected to mechanical, electrical, or other abuse or modifications. Equipment that fails under conditions other than those covered will be repaired at the current price of parts and labor in effect at the time of repair. Such repairs are warranted for ninety (90) days from the day of reshipment to the Buyer.

This warranty is in lieu of all other warranties expressed or implied, including without limitation, any implied warranty or merchantability or fitness for any particular purpose, all of which are expressly disclaimed.

- 1. Proof of sale may be required in order to claim warranty.
- 2. Customers outside the US are responsible for shipping charges to and from Gefen.
- 3. Copper cables are limited to a 30 day warranty and cables must be in their original condition.

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For the latest warranty coverage information, refer to the Warranty and Return Policy under the Support section of the Gefen Web site at www.gefen.com.

PRODUCT REGISTRATION

Please register your product online by visiting the Register Product page under the Support section of the Gefen Web site.

Contacting Gefen Technical Support

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Visit us on the Web:	www.gefenpro.com
Technical Support Hours:	8:00 AM to 5:00 PM Monday - Friday, Pacific Time
	For 24 / 7 support, see the back of the product for the support number

16x16 Modular Matrix for HDMI w/ HDCP

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Important Notice

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Operating Notes

- There is no internal scaling in the 16x16 Modular Matrix for HDMI w/ HDCP. All of the attached monitors must be able to display the output resolutions of the source devices. For maximum compatibility it is recommended that only one compatible/ common resolution be used by all of the source devices.
- Routing features can be accessed using RS-232 or IP control. See RS-232 and IP Configuration for more information.
- The 16x16 Modular Matrix for HDMI w/HDCP is available in several pre-configured versions to meet the requirements of your particular application. This User Manual covers both configurations. See Pre-Configured Options for additional information.

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- IwIP
- jQuery

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Features and Packing List

Features

- Supports resolutions up to 1080p Full HD
- HDMI Features Supported
 - HDCP compliant
 - 12-bit Deep Color
 - ▶ LPCM 7.1, Dolby® TrueHD, and DTS-HD Master Audio™
 - ► Lip-Sync pass-through
- ELR and HDBaseT® technologies allow extension up to 330 feet (100 meters)
- POL feature provides power to each ELR receiver through the CAT-5e cable
- Gefen FST speeds up the HDCP authentication process
- Fast and Slow FST Modes
- Advanced EDID management for rapid integration of sources and displays
- Front-panel display for status feedback
- Front-panel push buttons for local switching
- IP controlled via built-in web server, Telnet, and UDP
- RS-232 Serial interface for remote control via an automation control system
- IR control of the matrix via front panel sensor and from each Receiver location
- Broadcast of IR commands from the matrix side to all viewing locations, and from each receiver location to the matrix all sources
- Routing states can be stored and recalled at the touch of a button
- Output masking command
- Optional IR remote control (RMT-MOD-IRN)
- Stand-by mode
- Field upgradable firmware via USB or IP
- Dual redundant hot-swappable power supplies
- Rack-mountable









Packing List

See Pre-Configured Options for packing list details for each pre-configured option. If any of these items are not present in your box when you first open it, immediately contact your dealer or Gefen.

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01 Getting Started

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Pre-Configured Options

The following list outlines the available pre-configured options. Because this User Manual covers information on all available configurations, it is important to identify the type of 16x16 Modular Matrix for HDMI w/ HDCP that was purchased.

▶ 16 HDMI Inputs / 16 HDMI Outputs (GEF-HDFST-MOD-16416-HD)

Two input cards. Each card uses eight HDMI inputs, providing a total of 16 HDMI inputs.

Two output cards. Each card uses eight HDMI outputs, providing a total of 16 HDMI outputs.

Packing List:

- (1) 16x16 Modular Matrix for HDMI w/ HDCP Frame
- (2) Modular Matrix 8 HDMI Input Cards
- (2) Modular Matrix 8 HDMI Output Cards
- (1) DB-9 cable
- (2) AC power cords
- (1) Quick-Start Guide

▶ 16 HDMI Input / 16 CAT-5 ELR-POL Outputs (GEF-HDFST-MOD-16416-HDELR)

Two input cards. Each card uses eight HDMI inputs, providing a total of 16 HDMI inputs.

Two output cards. Each card uses eight ELR-POL outputs. Each of these ELR-POL outputs are connected to a Receiver unit, using a CAT-5e cable, allowing you to extend the HDMI signal up to 330 feet (100 meters). 16 ELR-POL Receiver units are included with this package option.

Packing List:

- (1) 16x16 Modular Matrix for HDMI w/ HDCP Frame
- (2) Modular Matrix 8 HDMI Input Cards
- (2) Modular Matrix 8 HDMI Sender over CAT-5 Cards
- (16) HDMI ELR Receivers with POL
- (1) DB-9 Cable
- (2) AC Power Cords
- (1) Quick-Start Guide

Panel Layout

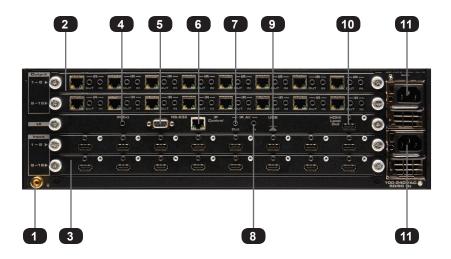
Front Panel



ID	Name	Description
1	Standby / Lock (LED)	When the matrix is in standby mode, this LED indicator will glow bright blue. When the matrix is locked, the LED indicator will glow bright green. See Locking the Matrix for more information.
2	IR sensor	This IR sensor receives signals from an IR remote.
3	Front panel display	Provides feedback and matrix status during various operations.
4	Front panel buttons	Used to control various features on the Matrix. See the section Basic Operation for more information.

Back Panel

(GEF-HDFST-MOD-16416-HDELR shown)

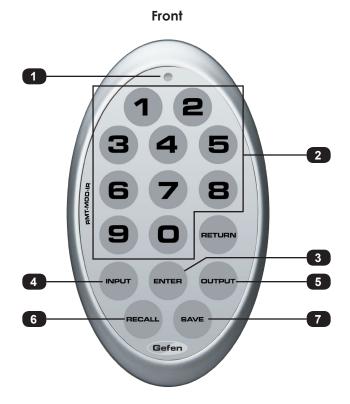


ID	Name	Description
1	Grounding terminal	Connect a grounding wire from the grounding terminal to an approved ground path.
2	Output (1 - 16)	These two expansion bays accept Output cards, only (HDMI or ELR).
3	Input (1 - 16)	These two expansion bays accept Input cards, only (HDMI).
4	IR Ext	Connect an IR Extender (Gefen part no. EXT-RMT-EXTIRN) to this port.
5	RS-232	Connect the included RS-232 cable from this port to an RS-232 device. See RS-232 and IP Configuration for more information.
6	IP Control	Connect an Ethernet cable between this jack and a LAN to use IP control. See RS-232 and IP Configuration for more information.

7	IR All (Out)	Connect an IR blaster to this port to send IR commands to multiple devices. This port is only active if the unit is configured with the ELR-POL Output option.
8	IR All (In)	This port is designed to be used with an IP-based automation control device. Connect the IR cable from an IR Emitter port on the automation control device to this IR port. This port is only active if the unit is configured with the ELR-POL Output option.
9	USB	This mini USB port is used for upgrading the firmware. See Upgrading using USB for more information.
10	HDMI Local Out	Connect a local HDTV display to this HDMI port. This port is useful for monitoring the currently routed input signal.
11	IEC connector	Connect the included AC power cords from these power receptacles to available electrical outlets.

IR Remote Control Unit

The IR remote control unit (Gefen part no. RMT-MOD-IRN) is not included 16x16 Modular Matrix for HDMI with HDCP but can be purchased separately.

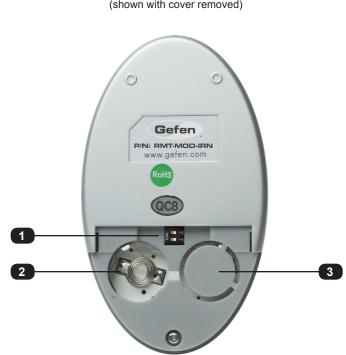


ID	Name	Description
1	Activity indicator	This LED flashes bright orange when a key is pressed on the remote.
2	Input Selection (0 - 9)	Press these buttons to switch to the desired input (source).
3	Enter	Press this button to commit the routing change.



NOTE: An Activity indicator that flashes quickly while holding down any one of the buttons indicates a low battery. Replace the battery as soon as possible. See Installing the Battery.

ID	Name	Description
4	Input	Press this button prior to selecting the input.
5	Output	Press this button prior to selecting the output.
6	Recall	Press this button prior to entering the preset to be loaded.
7	Save	When saving a routing state, press this button prior to entering the preset number.



Back (shown with cover removed)

ID	Name	Description
1	DIP switch bank	Use these DIP switches to set the IR channel of the remote. See Setting the IR Channel for more information.
2	Primary battery slot (shown without battery)	Holds the battery for operating the remote. Use only 3V CR2032-type batteries. Make sure that the positive (+) side of the battery is facing up.
3	Alternate battery slot	Allows for the installation of secondary (backup) battery.

Installing the Battery

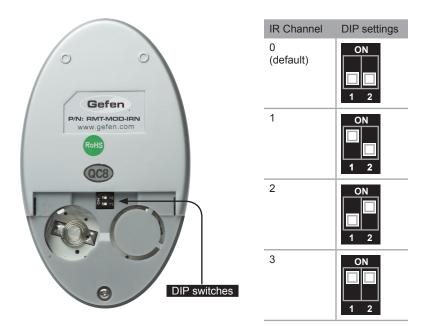
The IR remote control unit ships with two batteries. Only one battery is required for operation. The second battery is a spare.

WARNING: Use only 3V CR2032-type batteries. Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

- 1. Remove the back cover the IR Remote Control unit.
- 2. Insert the included battery into the primary battery slot. The positive (+) side of the battery should be facing up.
- 3. Replace the back cover.

Setting the IR Channel

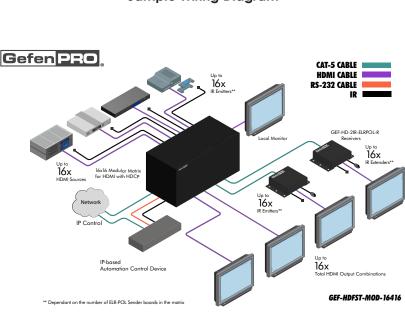
In order for the included IR remote control to communicate with the 16x16 Modular Matrix for HDMI with HDCP, the IR remote control must be set to the same channel as the matrix. Use the #set ir command to set the IR channel of the matrix.



Installation

As there are several versions of the 16x16 Modular Matrix for HDMI w/HDCP available, each version will be covered. Locate the connection instructions for the version which was purchased. The wiring diagram at the bottom of the page provides a general reference for connecting the 16x16 Modular Matrix for HDMI w/ HDCP.

- ▶ GEF-HDFST-MOD-16416-HD
- ► GEF-HDFST-MOD-16416-HDELR



Sample Wiring Diagram

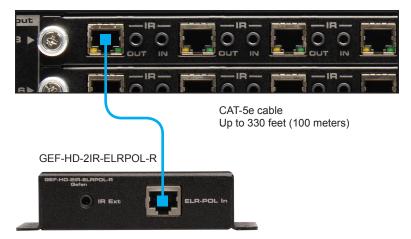
WARNING: Both power supplies should always be connected to grounded electrical AC outlets. Each power cord should be connected to an electrical outlet on a separate circuit.

GEF-HDFST-MOD-16416-HD

- 1. Connect up to 16 Hi-Def sources to the HDMI inputs on the rear panel of the 16x16 Modular Matrix for HDMI w/ HDCP using HDMI cables.
- Connect up to 16 HDTV displays to the HDMI outputs on the rear panel of the 16x16 Modular Matrix for HDMI w/ HDCP.
- Connect both AC power cords from the 16x16 Modular Matrix for HDMI w/ HDCP to available electrical outlets. Connecting both AC power cords will provide redundancy should one of the power supplies fail. It is recommended that each power cord be connected to an electrical outlet on a separate circuit.

GEF-HDFST-MOD-16416-HDELR

- 1. Connect up to 16 Hi-Def sources to the HDMI inputs on the rear panel of the 16x16 Modular Matrix w/ HDCP using HDMI cables.
- Connect a CAT-5e cable (or better), up to 330 feet (100 meters) from each ELR-POL jack on the Sender card to each of the included ELR-POL Receiver units, as shown below.

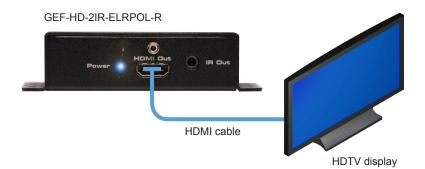


Once the matrix is powered, the Link indicators will glow bright green to indicate a solid link between the output card and the Receiver unit.

The POL indicators will glow bright amber to indicate that the Receiver unit is being powered.

(continued on next page)

 Connect an HDMI cable from the HDMI Out port on each ELR-POL Receiver unit to an HDTV display.



4. Connect both AC power cords from the 16x16 Modular Matrix for HDMI w/ HDCP to available electrical outlets. Connecting both AC power cords will provide redundancy should one of the power supplies fail. It is recommended to connect each power cord to electrical outlets on two separate circuits.

Power to the Receiver unit is delivered from the power supply in the matrix over the CAT-5e cable using Gefen Power Over Line (POL) technology. The Link indicator will glow bright green to indicate a solid connection between the matrix and the Receiver unit. The Power indicator will glow bright blue to indicate that the Receiver unit is being powered.

If either of these LED indicators are OFF, inspect the CAT-5 cable for loose connections or possible defects.

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Basic Operation

Standby Mode

After the AC power cord(s) is/are connected to the matrix, the LED indicator next to the display will glow bright blue. The matrix is now in *standby mode*.



Standby mode is similar to powering-off the matrix. However, in standby mode, the matrix can be powered-on by executing the $\#_{power}$ command. See RS-232 and IP Configuration for more information on using the RS-232 / IP commands.

Powering the Matrix

- 1. From *standby mode*, press the **Power** button on the front panel.
- 2. The standby mode LED will turn off.
- 3. After a few moments, the *home screen* will be displayed:



4. To return to *standby mode*, press the **Power** button on the front panel.

Accessing the Menu System

The 16x16 Modular Matrix for HDMI w/ HDCP uses a built-in menu system which provides access to other non-routing functions. Use the **Menu** button to access the menu system.



- 1. From the *home screen*, press the **Menu** button.
- 2. To cycle through each of the menus, do one of the following:
 - Consecutively press the Menu button. Using the Menu button will move forward through each of the menus.
 - Use the Page Up or Page Dn buttons. Use the Page Up button to go backward through each menu system. Use the Page Dn button to go forward through the menu system.
- 3. Press the **Return** button at any time to return to the *home screen*.



(continued on next page)

Display	Description			
1. IP CONFIG	Allows IP configuration for the following: IP address, Net mask, and Gateway address. See RS-232 and IP Configuration for more information.			
2. TEMPERATURE	Provides temperature information of the internal boards. See Temperature Menu for more information.			
3. LCM CONTRAST	Allows contrast adjustment of the front-panel display. See LCM Contrast Menu for more information.			

Menu System

IP Configuration Menu

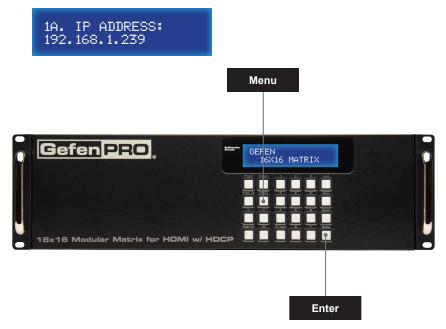
The 16x16 Modular Matrix for HDMI w/ HDCP can be controlled using the built-in Web interface, Telnet, or UDP protocols. In order to use these communication methods, the IP settings of the matrix must be set accordingly. The IP Configuration menu displays the current IP address, net mask, and gateway address for the matrix.

I NOTE: Depending upon the network, all related IP, Telnet, and UDP settings will need to be assigned. IP settings cannot be changed using the front-panel buttons and must be configured using the RS-232 / IP command set. See RS-232 and IP Configuration for more information.

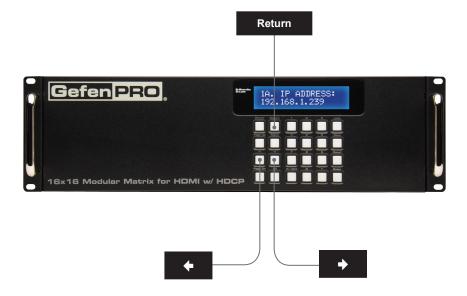
1. From the *home screen*, press the **Menu** button. The **IP Config** menu will be displayed.



 Press the Enter button to enter the IP Config menu. The current IP address of the matrix will be displayed.



3. Press the ← or → button to move backward or forward, respectively, to display the current IP address, net mask, and gateway address of the matrix.



Display	Description			
1A. IP ADDRESS: 192.168.1.239	Displays the current IP address of the matrix. Use the #sipadd command to change the IP address.			
1B. NETMASK 255.255.255.0	Displays the subnet mask of the matrix. Use the #snetmask command to change the subnet mask.			
1C. GATEWAY 192.168.1.1	Displays the gateway address of the matrix. Use the #sgateway command to change the gateway address.			

4. Press the Return button, twice, to return to the home screen.

Temperature Menu

Temperature data within the enclosure can be reported using the buttons on the front panel.

1. From the *home screen*, press the **Menu** button. The **IP Config** menu will be displayed.



2. Consecutively press the **Page Up** or **Page Dn** button until the **Temperature** menu is displayed.



3. Press the **Enter** button to enter the **Temperature** menu. The temperature for each of the internal boards will be displayed.

T1: 44.375°C T2: 43.250°C 2A.

4. Press the **Return** button, twice, to return to the *home screen*.



LCM Contrast Menu

The LCM Contrast Menu is used to adjust the visual intensity (contrast) of the characters in the front-panel display. The contrast can be set to four different levels of intensity. The default value is 4.

1. From the *home screen*, press the **Menu** button. The **IP Config** menu will be displayed.



 Consecutively press the Page Up or Page Dn button until the LCM Contrast menu is displayed.



3. Press the Enter button to enter the LCM Contrast menu.



4. Enter a number between 1 and 4, using the keypad on the front panel. For example, to set the contrast to 1, press button 1 on front panel. Once the desired button is pressed, the value will appear in the display and the setting will take effect. If another setting is desired, enter a number between 1 and 4 to see the effect.



5. Press the Enter button to accept the changes. The display will indicate "OK".



6. After a few moments, the *home screen* will be displayed.

Routing Basics

Displaying the Current Routing Status

To display the current routing status of the 16x16 Modular Matrix for HDMI w/ HDCP, press the **Page Up** or **Page Dn** buttons.

1. Press the **Page Dn** button on the front panel. The routing status of the first four outputs is displayed.

In the illustration below, we can see that Input 1 is routed to Output 1, Input 7 is routed to Output 2, and so on.



2. Press the Page Dn button to view the routing status of the next four inputs / outputs.



Consecutively press the **Page Dn** button to view the next four outputs. The last item to be displayed will be the routing status of **HDMI Local Out**.



Routing a Source to an Output

Using the Front Panel Buttons

The following example illustrates how to route a source to an output. An input may be routed to a single or multiple outputs. Multiple inputs cannot be routed to a single output.

1. Press the In / Out button on the front panel.

Gefen PRO	Bidhandhy Giladk	PORT S	ELECT	
		Pesser Return Pesser Dip Many		
16x16 Modular Matrix for HDMI w	/ HDCP			
In / Ou	ut —		/	Enter

2. The front panel display will indicate that routing mode is active.



3. Select an input (1 - 16) using the numerical keys on the front panel. For this example, we will route Input 15 to Output 12. Enter the input by pressing buttons 1 and 5.



If an incorrect value is entered by accident, use the $\,\leftarrow\,$ button to delete the last number entered.

4. Press the In / Out button, again. The display will change to the following:



5. Enter the number of the output using the numerical keys on the front panel. Since we want to route Input 15 to Output 12, we will press buttons 1 and 2. The selected output will appear on the display.



Once again, if an incorrect output value is entered by accident, use the $\,\leftarrow\,$ button to delete the last number entered.

If the decision to change the *input* is made, press the **Return** button to go back to the previous screen. The previous input entry will automatically be erased:



6. Once the desired input and output have been entered, press the **Enter** button to execute the routing process. The display will show the following:



7. After a few moments, the *home screen* will be displayed.



Routing Basics

Using the IR Remote Control

1. Press the Input button on the IR remote control.



2. The front panel display will indicate that routing mode is active.



3. Select an input (1 - 16) using the numerical keys on the IR remote control. For this example, we will route Input 7 to Output 12. Enter the input by pressing button 7.



If an incorrect value is entered by accident, press the Return button.

4. Press the **Output** button.



The display will change to the following:



 Enter the number of the output using the numerical keys on the IR remote control. Since we want to route Input 7 to Output 12, we will press buttons 1 and 2. The selected output will appear on the display.



If an incorrect output value is entered by accident, press the **Return** button to restart the routing process. Pressing the **Return** button will return the matrix to the home screen.



6. Once the desired input and output have been entered, press the **Enter** button to execute the routing process.





Routing a Source to Multiple Outputs

The following example illustrates how to route a source to multiple outputs.

IMPORTANT: When routing a source to multiple outputs, HDMI Local Out (Output 17) is not included as part of the routing process. To route a source to HDMI Local Out, it must be performed separately. See Routing a Source to an Output or Routing a Source to Multiple Outputs.

1. Press the In / Out button on the front panel.



2. The front panel display will indicate that routing mode is active.



3. Select an input (1 - 16) using the numerical keys on the front panel.



If an incorrect value is entered by accident, use the $\ \leftarrow \$ button to delete the last number entered.

4. Press the In / Out button, again. The display will change to the following:



5. Enter the number of the first output using the numerical keys on the front panel. The selected output will appear on the display.



If an incorrect output value is entered by accident, use the $\ \leftarrow \$ button to delete the last number entered.

If the decision to change the *input* is made, press the **Return** button to go back to the previous screen. The previous input entry will automatically be erased:

6. Press the + button to add another output.



7. Enter the desired output. In the example below, we have entered 4.



- 8. Repeat steps 6 and 7 to add more outputs.
- 9. Press the **Enter** button to complete the routing procedure.
- 10. After a few moments, the *home screen* will be displayed.



Routing a Source to All Outputs

The following example illustrates the process for routing a single input to all outputs, simultaneously.

1. Press the **All** button on the front panel.



2. The display on the front panel will show the following:



3. Select an input (1 - 16) using the numerical keys on the front panel. For this example, we will route Input 10 to all outputs. Therefore, we'll press buttons 1 and 0.



If an incorrect value is entered by accident, use the $\,\leftarrow\,$ button to delete the last number entered.

- 4. Press the Enter button on the front panel.
- 5. The display will indicate that the routing process was successful.





Saving a Routing Preset

Using the Front Panel Buttons

The 16x16 Modular Matrix for HDMI w/ HDCP allows routing (and masking) states to be saved to internal non-volatile memory. Each routing state can be recalled at a later time. Even if the matrix is powered OFF, the presets will be retained in memory.

1. Press the **Save** button on the front panel.



3. Select a preset (1 - 8) by using the numerical keys on the front panel. For this example, we will save the current routing status to Preset 2 by pressing button **2**.



4. Press the **Enter** button to save the current routing state to the preset. The front-panel display will indicate that the preset has been saved.



Routing Basics

Using the IR Remote Control

1. Press the **Save** button on the IR remote control.



2. The display will show the following:



 Select a preset (1 - 8) by using the numerical keys on the IR remote control. For this example, we will save the current routing status to Preset 3 by pressing button 3.



If an incorrect output value is entered by accident, press the **Return** button to restart the process. Pressing the **Return** button will return the matrix to the home screen.

4. Press the **Enter** button to save the current routing state to the preset. The front-panel display will indicate that the preset has been saved.



Recall

Recalling a Saved Routing Preset

Using the Front Panel Buttons

The 16x16 Modular Matrix for HDMI w/ HDCP allows saved routing (and masking) states to be recalled from memory for instant access.

In this example, we will recall the routing preset that we stored in the previous example.

1. Press the **Recall** button on the front panel.



2. The display will show the following:



3. Select a preset (1 - 8) by using the numerical keys on the front panel. For this example, we will recall Preset 3 by pressing button **3**.



4. Press the Enter button to recall the preset.



Routing Basics

Using the IR Remote Control

1. Press the **Recall** button on the IR remote control.



2. The display will show the following:



3. Select a preset (1 - 8) by using the numerical keys on the front panel. For this example, we will recall Preset 3 by pressing button **3**.



If an incorrect output value is entered by accident, press the **Return** button to restart the process. Pressing the **Return** button will return the matrix to the home screen.

4. Press the **Enter** button to recall the preset. The front-panel display will indicate that the preset has been loaded.



Locking the Matrix

Locking the matrix will prevent any changes by disabling all buttons (except the **Lock** button) on the front panel. This feature is useful in preventing routing or other changes caused by accidentally bumping or pressing the buttons on the front panel.

1. Press the **Lock** button on the front panel.



2. Once the matrix is locked, the LED indicator next to the display will glow bright green.



3. To unlock the matrix, press and hold the **Lock** button again, until the LED indicator turns off. The display will return to the *home screen*.

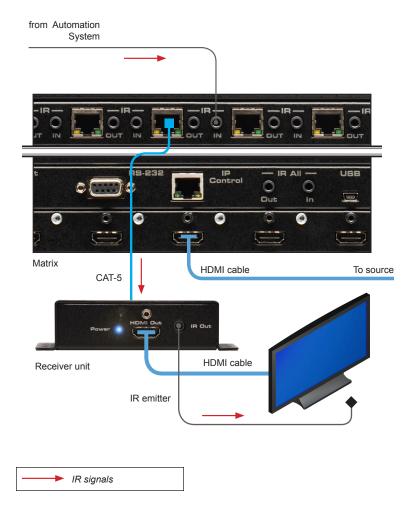


IR Control

The 16x16 Modular Matrix for HDMI w/ HDCP provides IR control. Use an IR extender (Gefen part no. EXT-RMT-EXTIRN) to control the source device from the viewing location or an automation system to control the display (or other sink device). Refer to the user documentation that came with your automation system for details.

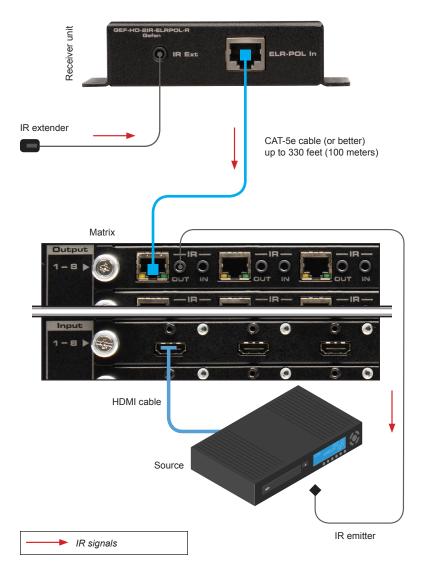
Controlling the Display from the Source Location

- 1. Connect the 3.5mm mini-mono end of the IR cable from the **IR IN** port on the matrix to the automation system.
- 2. Connect an IR emitter (Gefen part no. EXT-IREMIT) from the **IR Out** jack on the Receiver unit to IR sensor on the display.



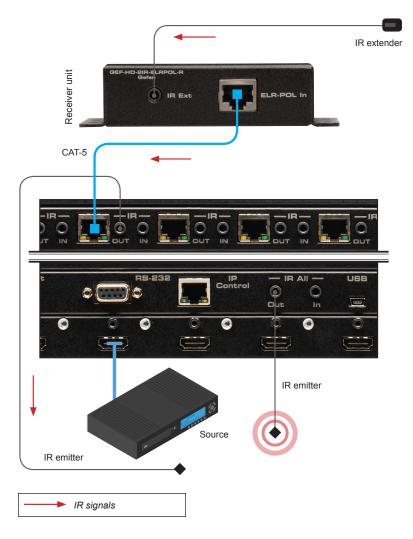
Controlling the Source from the Viewing Location

- 1. Connect an IR extender (Gefen part no. EXT-RMT-EXTIRN) to the **IR Ext** port on the Receiver unit.
- Connect an IR emitter (Gefen part no. EXT-IREMIT) from the IR OUT jack on the 16x16 Modular Matrix for HDMI w/ HDCP to the IR sensor on the source device.



Controlling Multiple Sources

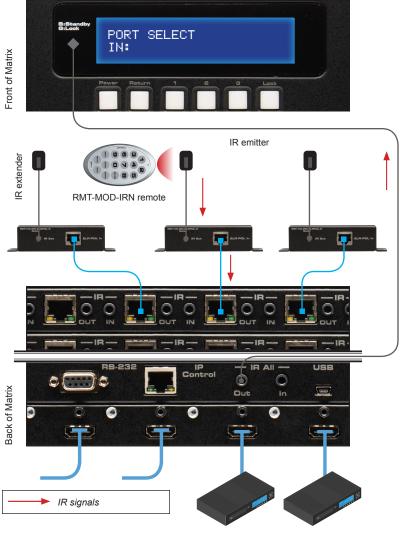
- 1. Connect an IR extender (Gefen part no. EXT-RMT-EXTIRN) to the **IR Ext** port on the Receiver unit.
- Connect an IR emitter (Gefen part no. EXT-IREMIT) to the IR OUT jack on the 16x16 Modular Matrix for HDMI w/ HDCP.
- Another IR emitter can be connected to the IR All Out port, in order to control individual (or multiple) sources that are not controlled using the IR emitter connected to the IR OUT port.



Controlling the Matrix from the Viewing Location

Routing can be managed from any viewing location, using the included IR remote control unit, regardless of the current routing state of the matrix.

- 1. Connect an IR extender (Gefen part no. EXT-RMT-EXTIRN) to the **IR Ext** jack on each Receiver unit.
- 2. Connect an IR emitter (Gefen part no. EXT-IREMIT) from the **IR All Out** port on the back of the matrix and place the emitter over the IR sensor on the front panel of the matrix.



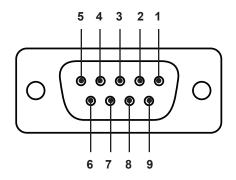
16, 16 sources displays Modular Matrix for HDMI with HDCP

03 Advanced Operation

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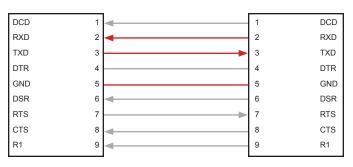
RS-232 and IP Configuration

RS-232 Interface





Matrix



Only TXD, RXD, and GND pins are used.

RS-232 Settings

Description	Setting
Baud rate	19200
Data bits	8
Parity	None
Stop bits	1
Hardware flow control	None



IMPORTANT: When sending RS-232 commands, a carriage return must be included at the end of the command. A space *must* be included between the command and the parameter.

IP / UDP Configuration

The 16x16 Modular Matrix for HDMI w/ HDCP supports IP-based control using Telnet, UDP, or the built-in Web-based GUI. To set up IP control, the network settings for the 16x16 Modular Matrix for HDMI w/ HDCP must be configured via RS-232. The default network settings for the matrix are as follows:

Description	IP Address / Port	Description	IP Address / Port
IP Address	192.168.1.72	UDP Port	23
Subnet	255.255.255.0	Local UDP Port	50007
Gateway	192.168.1.1	Remote UDP IP	192.168.1.255
HTTP Port	80	Remote UDP Port	50008

- Connect an RS-232 cable from the PC to the 16x16 Modular Matrix for HDMI w/ HDCP. Also make sure that an Ethernet cable is connected between the matrix and the network.
- 2. Launch a terminal emulation program (e.g. HyperTerminal) and use the RS-232 settings listed on the previous page.



NOTE: Depending upon the network, all related IP, Telnet, and UDP settings will need to be assigned. Consult your network administrator to obtain the proper settings.

- 3. Set the IP address for the matrix using the #sipadd command.
- 4. Set the subnet mask using the #snetmask command.
- 5. Set the gateway (router) IP address using the #sgateway command.
- 6. Set the Telnet listening port using the #set_telnet_port command.
- 7. Set the HTTP listening port using the #set http port command.
- Set the UDP remote IP address for the matrix using the #set_udp_remote_ip command.
- 9. Set the UDP listening port for the matrix using the #set udp port command.
- 10. Set the UDP remote port for the matrix using the #set_udp_remote_port
 command.
- 11. Reboot the matrix to apply all changes, then type the IP address that was specified in step 3, in a Web browser to access the Web GUI. Use the same IP address to Telnet to the matrix.

Commands

IP Configuration

Command	Description
#display_telnet_welcome	Enable / disable the Telnet welcome message
#ipconfig	Displays the current IP configuration
#resetip	Resets the IP configuration to factory-default settings
#set_http_port	Sets the Web server listening port
#set_telnet_pass	Sets the Telnet password
#set_telnet_port	Sets the Telnet listening port for the matrix
#set_webui_ad_pass	Sets the Administrator password for the Web GUI
#set_webui_op_pass	Sets the Operator password for the Web GUI
#sgateway	Sets the IP address of the (router) gateway
#show_gateway	Displays the current gateway address of the matrix
#show_http_port	Displays the current HTTP listening port of the matrix
#show_ip	Displays the current IP address of the matrix
#show_mac_addr	Displays the MAC address of the matrix
#show_netmask	Displays the current net mask of the matrix
#show_telnet_port	Displays the Telnet listening port
#sipadd	Sets the IP address of the matrix
#snetmask	Sets the Net mask of the matrix
<pre>#use_telnet_pass</pre>	Force password during Telnet sessions

#display_telnet_welcome

The $\texttt{#display_telnet_welcome}$ command enables / disables the Telnet welcome message during a Telnet session.

<u>Syntax</u>:

#display telnet welcome

Parameters:

param1	Value	[0 1]
	Value	Description
	0	Disable welcome message
	1	Enable welcome message

Example:

#display telnet welcome 1

TELNET WELCOME SCREEN IS ENABLED

When enabled and a Telnet session has been started, the following will appear:

Welcome to GEF-HDFST-MOD-16416 TELNET

telnet->

#ipconfig

The #ipconfig command displays the current TCP settings.

Syntax:

#ipconfig

Parameters:

None

Example:

#ipconfig
IP Configuration is :

IP: 192.168.2.238 NETMASK: 255.255.255.0 GATEWAY: 192.168.2.1 MAC Address: 00-1c-91-03-00-04

#resetip

The #resetip command resets the IP configuration to factory-default settings. The matrix must be rebooted after executing this command.

Syntax:

#resetip

Parameters:

None

Syntax:

#resetip

```
IP CONFIGURATION WAS RESET TO FACTORY DEFAULTS
IP: 192.168.1.72
Netmask: 255.255.255.0
Gateway: 192.168.1.1
```

#set_http_port

The <code>#set_http_port</code> command specifies the Web server listening port. The matrix must be rebooted after executing this command. The default port setting is 80. Use the <code>#show http port</code> command to display the current HTTP listening port.

<u>Syntax</u>:

#set http port param1

Parameters:

param1

Port

[1 ... 1024]

Example:

#set http port 82

HTTP COMMUNICATION PORT 82 IS SET. PLEASE REBOOT THE UNIT.

#set_telnet_pass

The #set_telnet_pass command sets the Telnet password. The password is case-sensitive and cannot exceed 8 characters in length. The default password is Admin.

<u>Syntax</u>:

#set telnet pass param1

Parameters:

param1 Password

Example:

#set telnet pass 3ver3st

TELNET INTERFACE PASSWORD IS SET

#set_telnet_port

The #set_telnet_port command sets the Telnet listening port. The matrix must be rebooted after executing this command. The default port setting is 23. Use the #show telnet port command to display the current Telnet listening port.

<u>Syntax</u>:

#set telnet port param1

Parameters:

param1

Port

[1 ... 1024]

Example:

#set telnet port 24

TELNET COMMUNCATION PORT 24 IS SET. PLEASE REBOOT THE UNIT.

#set_webui_ad_pass

The #set_webui_ad_pass command sets the Administrator password for the Web GUI.
The password is case-sensitive and cannot exceed 7 characters in length. The default
password is Admin.

<u>Syntax</u>:

#set_webui_ad_pass param1

Parameters:

param1 Password

Example:

#set_webui_ad_pass bossman

WEB UI ADMINISTRATOR PASSWORD IS SET

#set_webui_op_pass

The #set_webui_ad_pass command sets the Operator password for the Web GUI. The default password is Admin.

<u>Syntax</u>:

#set webui op pass param1

Parameters:

param1 Password

Example:

#set webui op pass minion

WEB UI OPERATOR PASSWORD IS SET

#sgateway

The #sgateway command sets the gateway address. The gateway must be typed using dot-decimal notation. The matrix must be rebooted after executing this command. The default gateway is 192.168.1.1.

<u>Syntax</u>:

#sgateway param1

Parameters:

param1 Gateway

Example:

#sgateway 192.168.1.5

GATEWAY ADDRESS 192.168.1.5 IS SET. PLEASE REBOOT THE UNIT.

#show_gateway

The <code>#show_gateway</code> command displays the current gateway address of the matrix. Use the <code>#sgateway</code> command to set the gateway address.

<u>Syntax</u>:

#show_gateway

Parameters:

None

Example:

#show gateway

GATEWAY ADDRESS IS: 192.168.1.5

#show_http_port

The <code>#show_http_port</code> command displays the current HTTP listening port of the matrix. Use the <code>#set http port</code> command to set the HTTP listening port.

Syntax:

#show http port

Parameters:

None

Example:

#show http port

HTTP COMMUNICATION PORT IS: 82

#show_ip

The $\#show_ip$ command displays the current IP address of the matrix. Use the #sipadd command to set the IP address.

<u>Syntax</u>:

#show_ip

Parameters:

None

Example

#show ip

IP ADDRESS IS: 192.168.1.239

#show_mac_addr

The #show mac addr command displays the MAC address of the matrix.

Syntax:

#show_mac_addr

Parameters:

None

Example:

#show mac addr

MAC ADDRESS IS: 00-1c-91-03-00-02

#show_netmask

The #show_netmask command displays the current net mask of the matrix. Use the #snetmask command to set the net mask.

<u>Syntax</u>:

#show netmask

Parameters:

None

Example:

#show netmask

NETMASK ADDRESS IS: 255.255.255.0

#show_telnet_port

The <code>#show_telnet_port</code> command displays the current Telnet port of the matrix. Use the <code>#set_telnet_port</code> command to set the Telnet listening port.

Syntax:

#set telnet port param1

Parameters:

param1

Port

[1 ... 65535]

Example:

#set telnet port 24

TELNET COMMUNCATION PORT 24 IS SET. PLEASE REBOOT THE UNIT.

#sipadd

The #sipadd command sets the IP address of the matrix. The IP address must be entered using dot-decimal notation. The matrix must be rebooted after executing this command. The default IP address is 192.168.1.72. Use the #show_ip or #ipconfig command to display the current IP address of the matrix.

Syntax:

#sipadd param1

Parameters:

param1

IP address

Example:

#sipadd 192.168.1.239

IP ADDRESS 192.168.1.239 IS SET. PLEASE REBOOT THE UNIT.

#snetmask

The #snetmask command sets the subnet mask. The net mask must be entered using dot-decimal notation. The matrix must be rebooted after executing this command. The default net mask is 255.255.255.0. Use the #show_netmask command to display the current net mask of the matrix.

Syntax:

#snetmask param1

Parameters:

param1

Net mask

Example:

#snetmask 255.255.0.0

NETMASK ADDRESS 255.255.0.0 IS SET. PLEASE REBOOT THE UNIT.

#use_telnet_pass

The $\#use_telnet_pass$ command forces the password credentials for each Telnet session. The default setting is 0 (disabled).

<u>Syntax</u>:

#use telnet pass param1

Parameters:

param1	Value		[0 1]
	Value	Description	
	0	Disable password	
	1	Enable password	

Example:

#use telnet pass 1

TELNET INTERACE PASSWORD IS ENABLED

UDP Configuration

Command	Description
#set_udp_port	Sets the local UDP listening port
<pre>#set_udp_remote_ip</pre>	Sets the remote UDP IP address
<pre>#set_udp_remote_port</pre>	Sets the remote UDP listening port
#show_udp_port	Displays the current local UDP listening port
#show_udp_remote_ip	Displays the current remote UDP IP address
#show_udp_remote_port	Displays the current remote UDP listening port
#use_udp_enable	Enables / disables UDP access

#set_udp_port

The $\#set_udp_port$ command sets the local UDP server listening port. The default port setting is 21. The matrix must be rebooted after executing this command. Use the $\#show_udp_port$ command to display the current local UDP listening port.

Syntax:

#set_udp_port param1

Parameters:

param1

Port

[1 ... 65535]

Example:

#set_udp_port 56

UDP COMMUNICATION PORT 56 IS SET

#set_udp_remote_ip

The <code>#set_udp_remote_ip</code> command sets the remote UDP IP address. The IP address must be specified using dot-decimal notation. The default UDP remote IP address is 192.168.1.255. The matrix must be rebooted after executing this command.

<u>Syntax</u>:

#set_udp_remote_ip param1

Parameters:

param1

UDP address

Example:

#set udp remote ip 192.168.1.227

REMOTE UDP IP ADDRESS 192.168.1.227 IS SET.

#set_udp_remote_port

The #set_udp_remote_port command sets the remote UDP listening port. The default remote UDP listening port is 50008. The matrix must be rebooted after executing this command.

Syntax:

#set_udp_rport param1

Parameters:

param1

Port

[1 ... 65535]

Example:

#set_udp_rport 50008

REMOTE UDP COMMUNICATION PORT 50008 IS SET.

#show_udp_port

The <code>#show_udp_port</code> command displays the current local UDP listening port. Use the <code>#set_udp_port</code> command to set the local UDP listening port.

<u>Syntax</u>:

#show_udp_port

Parameters:

None

Example:

#show udp port

UDP COMMUNICATION PORT IS: 56

#show_udp_remote_ip

The <code>#show_udp_remote_ip</code> command displays the remote UDP IP address. Use the <code>#set_udp_remote_ip</code> command to set the remote UDP IP address.

Syntax:

#set udp remote ip param1

Parameters:

None

Example:

#set udp remote ip 192.168.1.227

REMOTE UDP IP ADDRESS 192.168.1.227 IS SET.

#show_udp_remote_port

The <code>#show_udp_remote_port</code> command displays the remote UDP listening port. Use the <code>#set_udp_remote_port</code> to set the remote UDP listening port.

<u>Syntax</u>:

#set udp rport param1

Parameters:

None

Example:

#show udp remote port

REMOTE UDP COMMUNICATION PORT IS: 50008

#use_udp_enable

The #use udp enable command enables or disables UDP access mode.

Syntax:

#use udp enable param1

Parameters:

param1

Value	Value			
Value	Description			
0	Disable UDP			
1	Enable UDP			

Example:

#use_udp_enable 1

UDP ACCESS IS ENABLE

FST

Command	Description
#fst_fast	Sets the specified inputs to Fast switching mode
#fst_slow	Sets the specified inputs to Slow switching mode
#show_fst	Displays the current switching mode for the specified input

#fst fast

The $\# \texttt{fst_fast}$ command sets the specified inputs to Fast switching mode. By default, all inputs are set to Fast switching mode. Up to 16 inputs can be specified at a time. If *param1* = 0, then all inputs are set to Fast switching mode.

Syntax:

#fst fast param1 [...param16]

Parameters:

param1 Input [1 ... 16]
<u>Examples</u>:
#fst_fast 1 4 5 6 10 12

INPUTS 1, 4, 5, 6, 10, 12 ARE SET TO FST FAST MODE

#fst fast 0

ALL INPUTS ARE SET TO FST FAST MODE

#fst slow

The $\#fst_slow$ command sets the specified inputs to Slow (normal) switching mode. Up to 16 inputs can be specified at a time. If *param1* = 0, then all inputs are set to Slow switching mode.

Syntax:

```
#fst slow param1 [...param16]
```

Parameters:

param1	Input								[1 16	6]		
<u>Examples</u> :												
#fst_slow	124	789	10	12								
INPUTS 1,	2, 4,	7, 8,	9,	10,	12	ARE	SET	ТО	FST	SLOW	MODE	

#fst slow 0

ALL INPUTS ARE SET TO FST SLOW MODE

#show_fst

The $\#show_fst$ command displays the switching mode of the specified input. If *param1* = 0, then the switching mode of all inputs are displayed.

<u>Syntax</u>:

#show fst param1

Parameters:

param1

Input

[1 ... 16]

Examples:

#show fst 6

INPUT 6(Input6) IS IN FAST SWITCHING MODE

#show_fst 0

INPUT	1(Input1)	IS	IN	SLO	N ST	VITCH	ING	MC	DE
INPUT	2(Input2)	IS	IN	FAS	r sv	VITCH	ING	MC	DE
INPUT	3(Input3)	IS	IN	FAS	r sv	VITCH	ING	MC	DE
INPUT	4(Input4)	IS	IN	SLO	N ST	VITCH	ING	MC	DE
INPUT	5(Input5)	IS	IN	SLO	N ST	VITCH	ING	MC	DE
INPUT	6(Input6)	IS	IN	SLO	N ST	VITCH	ING	MC	DDE
INPUT	7(Input7)	IS	IN	FAS	r sv	VITCH	ING	MC	DE
INPUT	8(Input8)	IS	IN	FAS	r sv	VITCH	ING	MC	DDE
INPUT	9(Input9)	IS	IN	FAS	r sv	VITCH	ING	MC	DDE
INPUT	10(Input1) :	IS :	IN SI	LOW	SWIT	CHIN	١G	MODE
INPUT	11(Input1	1) 1	IS	IN FA	AST	SWIT	CHIN	١G	MODE
INPUT	12(Input12	2) :	IS :	IN FA	AST	SWIT	CHIN	١G	MODE
INPUT	13(Input1	3) 3	IS	IN FA	AST	SWIT	CHIN	١G	MODE
INPUT	14(Input1	1) 1	IS	IN FA	AST	SWIT	CHIN	١G	MODE
INPUT	15(Input1	5)	IS :	IN SI	LOW	SWIT	CHIN	١G	MODE
INPUT	16(Input1	5) i	IS :	IN FA	AST	SWIT	CHIN	١G	MODE

[1 ... 17]

Routing and Masking

Command	Description
#mask	Masks the video on the specified output(s)
<pre>#recall_preset</pre>	Loads the specified routing / masking preset
#save_preset	Saves the current routing / masking state to a preset
#set_bank_name	Assigns an EDID bank with the specified name
#set_input_name	Assigns an input with the specified name
#set_output_name	Assigns an output with the specified name
#set_preset_name	Assigns a preset with the specified name
#show_bank_name	Displays the name for the specified EDID bank
#show_input_name	Displays the specified input name
#show_mask	Displays the current masking status of each output
#show_output_name	Displays the name of the specified output
#show_preset_name	Displays the specified preset name
#unmask	Unmasks the specified outputs
r	Routes the specified input to the specified outputs
S	Routes the specified input to all outputs

#mask

The #mask command masks the video on the specified outputs. If *param1* = 0, then all outputs will be masked. Output 17 is **HDMI Local Out**.

<u>Syntax</u>:

#mask param1 [...param17]

Parameters:

param1

Output

Example:

#mask 1 3 5 7 11

OUTPUTS 1, 3, 5, 7, 11 ARE MASKED

Commands

#recall_preset

The #recall_preset command loads the specified preset. Use the #save_preset command to store a preset.

<u>Syntax</u>:

<pre>#recall preset p</pre>	araml
-----------------------------	-------

Parameters:

param1

Preset

[1 ... 8]

Example:

#recall preset 7

RECALLED THE ROUTING STATE SAVED TO PRESET 7

#save preset

The <code>#save_preset</code> command saves the current routing / masking state to the specified preset. Use the <code>#recall_preset</code> command to load a preset.

Syntax:

#save preset param1

Parameters:

param1

Preset

[1 ... 8]

Example:

#save preset 3

CURRENT ROUTING STATE IS SAVED TO PRESET 3

#set_bank_name

The #set bank name command names the specified bank.

Syntax:

#set_bank_name param1 param2

Parameters:

param1	Bank	[1 8]
param2	Name	

Example:

#set_bank_name 5 Dell_30
Dell 30 NAME IS ASSIGNED TO BANK 5

#set_input_name

The #set input name command assigns a name to the specified input on the matrix.

Syntax:

#set input name param1 param2

Parameters:

param1Input[1 ... 16]param2Name

Example:

#set input name 5 Blu-ray

Blu-ray NAME IS ASSIGNED TO INPUT 5

#set_output_name

The #set_output_name command assigns a name to the specified output on the matrix. Output 17 is **HDMI Local Out**.

<u>Syntax</u>:

#set output name param1 param2

Parameters:

param1	Output	[1	17]
param2	Name		

Example:

#set_output_name 3 Sony_XBR

Sony XBR NAME IS ASSIGNED TO OUTPUT 3

#set_preset_name

The #set_preset_name command names the specified preset. The name of the preset cannot exceed 20 characters in length Spaces are not permitted when naming presets. If a space is required, then use the underscore ("_") character.

Syntax:

#set_preset_name param1 param2

Parameters:

param1	Preset	[1 8]
param2	Name	

Example:

#set preset name 8 Studio51

Studio51 NAME IS ASSIGNED TO PRESET 8

#show_bank_name

The #show bank name command displays the name for the specified EDID bank.

Syntax:

#show_bank_name param1

Parameters:

param1

Bank

[1 ... 8]

Example:

#show_bank_name 5

THE NAME FOR BANK 2 IS: Dell_30

#show_input_name

The #show input name command displays the name of the specified input.

Syntax:

#show input name param1

Parameters:

param1

Input

[1 ... 16]

Example:

#show_input_name 5

THE NAME FOR INPUT 5 IS: Blu-ray

Commands

#show_mask

The #show_mask command displays the mask status of the specified output. Output 17 is **HDMI Local Out**.

<u>Syntax</u>:

#show mask param1

Parameters:

param1

Output

[1 ... 17]

Example:

#show_mask 15

OUTPUT 15 IS UNMASKED

#show output name

The $\#{\tt show_output_name}$ command displays the name of the specified output. Output 17 is HDMI Local Out.

Syntax:

#show output name param1

Parameters:

param1

Output

[1 ... 17]

Example:

#show output name 3

THE NAME FOR OUTPUT 3 IS: Sony_XBR

#show_preset_name

The #show preset name command displays the name of the specified preset.

Syntax:

#show_preset_name param1

Parameters:

param1

Preset

[1 ... 8]

Example:

#show preset name 8

THE NAME FOR PRESET 8 IS: Studio51

#unmask

The #unmask command unmasks the specified output(s). Up to 16 outputs can be specified at a time. If *param1* = 0, then all outputs will be unmasked. Output 17 is **HDMI** Local Out.

Syntax:

#unmask param1 [... param17]

Parameters:

param1	Output	[1 17]
<u>Examples</u> :		
#unmask 3		
OUTPUT 3 IS UNMASKED		
#unmask 1 3 5 6 7		
OUTPUTS 1, 3, 5, 6, 7	ARE UNMASKED	
#upmoole 0		

#unmask 0

ALL OUTPUTS ARE UNMASKED

r

The r command routes the specified input to the specified outputs. Up to eight outputs can be specified at a time. Do not precede this command with the "#" symbol. If *param2* = 0, then the specified input will be routed to all outputs. Output 17 is **HDMI Local Out**. Also see the s command.

Syntax:

r param1 param2 [... param17]

Parameters:

param1	Input	[1 16]
param2	Output	[1 17]

Example:

r 1 2 3 7 8 9

INPUT 1 IS SET TO OUTPUTS 2, 3, 7, 8, 9

r 5 0

INPUT 5 IS SET TO ALL OUTPUTS.

s

The s command routes the specified inputs to all outputs. Do not precede this command with the "#" symbol. If *param1* = 0, then the matrix will be placed in a 1-to-1 routing state. In other words, Input 1 is routed to Output 1, Input 2 is routed to Output 2, and so on.

Syntax:

s paraml

Parameters:

param1	Input	[1 16]
<u>Example</u> :		
s 2		
ALL OUTPUTS ARE ROUTED) TO INPUT 2	
s 0		
Routing 1-1,2-2,		

System

Command	Description
#echo	Enables / disables RS-232 feedback
#fadefault	Resets the routing and masking to factory-default settings
#hdcp	Enables / disables HDCP detection
#help	Displays a list of available RS-232 / Telnet commands
#hdp_pulse	Cycles with HPD line on the specified output
#lock_edid	Locks the local EDID when the matrix is power-cycled
<pre>#lock_matrix</pre>	Locks / unlocks the matrix
#power	Toggles the power on the matrix
#reboot	Reboots the matrix
#set_edid	Sets the specified EDID to an input or bank
#set_ir	Sets the IR channel for the matrix
#show_fw	Displays the current version of matrix firmware
#show_hdcp	Displays the HDCP status of the specified input
#show_hpd	Displays the HPD status of the specified input
#show_ir	Displays the current IR channel of the matrix
#show_out_colordpt	Displays the maximum color depth supported by the display (sink) device based on the EDID
#show_out_res	Displays the maximum video resolution supported by the display (sink) device, based on the EDID
#show_r	Displays the current routing status of the specified output
#show_rsense	Displays the RSENSE status of the specified output
#show_ver_data	Displays the current firmware and hardware version
m	Displays the current matrix routing status
n	Displays the routing status of the specified output

#echo

The #echo command enables / disables (toggles) the RS-232 feedback.

Value

Syntax:

#echo param1

Parameters:

param1

[0 ... 1]

Value	Description
0	Disable feedback
1	Enable feedback

Example:

#echo 1

LOCAL ECHO IS ON

#fadefault

The #fadefault command resets the matrix to factory-default settings. Routing is restored to a "one-to-one: state, outputs are unmasked, and all IP and UDP settings are reset to default settings.

Syntax:

#fadefault

Parameters:

None

Example:

#fadefault

MATRIX WAS RESET TO FACTORY DEFAULTS MATRIX IS ON MATRIX IS UNLOCKED LOCAL ECHO IS ON ALL OUTPUTS ARE UNMASKED SET HPD HIGH TO ALL INPUT IP ADDRESS IS: 192.168.1.72 GATEWAY ADDRESS IS: 192.168.1.1 NET MASK ADDRESS IS: 255.255.255.0 INPUT NAME INIT.... OUTPUT NAME INIT PRESET NAME INIT.... BANK NAME INIT.... BANK EDID INIT BASE EDID INIT CURRENT ROUTING STATE IS SAVED TO PRESET 1 CURRENT ROUTING STATE IS SAVED TO PRESET 2 CURRENT ROUTING STATE IS SAVED TO PRESET 3 CURRENT ROUTING STATE IS SAVED TO PRESET 4 CURRENT ROUTING STATE IS SAVED TO PRESET 5 CURRENT ROUTING STATE IS SAVED TO PRESET 6 CURRENT ROUTING STATE IS SAVED TO PRESET 7 CURRENT ROUTING STATE IS SAVED TO PRESET 8 IR CHANNEL IS SET TO CHANNEL 0 (DIP1=OFF, DIP2=OFF) ALL INPUTS HDCP ARE ENABLED ALL INPUTS ARE SET TO FST FAST MODE MATRIX EDID IS UNLOCKED MATRIX WILL REBOOT SHORTLY *REBOOT UNIT IN 2 SECONDS

#hdcp

The #hdcp command enables / disables HDCP detection on the selected input.

NOTE: Some computers will enable HDCP if an HDCP-compliant display is detected. Set *param2* = 1 to force the computer to ignore detection of an HDCP-compliant display. Setting *param2* = 0 does *not* decrypt HDCP content.

Syntax:

#hdcp param1 param2

Parameters:

param1 param2	Input Value	[1 16] [0 1]	
	Value	Description	
	0	Disable	
	1	Enable	

Example:

#hdcp 2 0
INPUT 2 HDCP IS DISABLED

#hdcp 2 1
INPUT 2 HDCP IS ENABLED

Commands

#help

The #help command displays the list of available RS-232 / Telnet commands. Help on a specific command can be displayed when using param1.

Syntax:

#help param1

Parameters:

param1

Command name (optional)

Examples:

#help

#IPCONFIG #RESETIP #SIPADD #SNETMASK #SGATEWAY #SHOW IP #SHOW NETMASK #SHOW GATEWAY #SHOW_MAC_ADDR #SET HTTP PORT #SHOW HTTP PORT #FST FAST #SHOW FST #STRTO IN

#help #sipadd

#SIPADD PARAM 1 SET THE IP ADDRESS PARAM 1 = XXX.XXX.XXX.XXX WHERE XXX: 0 - 255

#hdp_pulse

The <code>#hpd_pulse</code> command cycles the HPD line on the specified input. Issuing this command is identical to physically disconnecting and reconnecting the cable between the source and the matrix. If param1 = 0, then all inputs will receive the HPD pulse.

<u>Syntax</u>:

#hpd pulse param1

Parameters:

param1

Input

[1 ... 16]

Examples:

#hpd_pulse
HPD PULSE HAS BEEN SENT TO INPUT 1

#hpd_pulse 0
HPD PULSE HAS BEEN SENT TO ALL INPUTS

#lock_edid

The $\#lock_edid$ command secures the Local EDID by disabling the automatic loading of the downstream EDID when the matrix is powered.

<u>Syntax</u>:

#lock edid param1

Parameters:

param1	Value		[0 1]
	Value	Description	
	0	Disable	
	1	Enable	

Examples:

#lock_edid 0
MATRIX EDID IS UNLOCKED

#lock_edid 1
MATRIX EDID IS LOCKED

#lock_matrix

The #lock_matrix command locks / unlocks the Matrix. When the matrix is locked, all functions are disabled including the front panel, RS-232, and Telnet

<u>Syntax</u>:

#lock matrix param1

Parameters:

param1

Value		[0 1]
Value	Description	
0	Unlock	
1	Lock	

Examples:

#lock_matrix 0
MATRIX IS UNLOCKED

#lock_matrix 1
MATRIX IS LOCKED

#power

The *#power* command toggles power on the matrix.

Value

Syntax:

#power param1

Parameters:

param1

[0 ... 1]

Value	Description
0	Off
1	On

Examples:

#power 0
(matrix will power-off)

#power 1

(matrix will power-on)

#reboot

The #reboot command reboots the matrix. Executing this command is the equivalent of disconnecting and reconnecting the AC power cord, on the back of the matrix. The matrix must be rebooted after changing the IP settings of the matrix.

<u>Syntax</u>:

#reboot

Parameters:

None

Example:

#reboot

MATRIX WILL REBOOT SHORTLY *REBOOT UNIT IN 2 SECONDS

GEF-HDFST-MOD-16416 v1.0X

MATRIX IS ON INPUT 3 IS SET TO ALL OUTPUTS.

IP: 192.168.2.239 Netmask: 255.255.255.0 Gateway: 192.168.1.1

#set_edid

The #set_edid command sets the specified EDID type to an input or bank. Output 17, used by *param2*, is **HDMI Local Out**.

<u>Syntax</u>:

#set edid param1 param2 param3 param4

Parameters:

param1	
--------	--

Source[STRING]SourceDescriptiondefaultUses default EDIDdynamicUses dynamic EDIDbankUses EDID bankoutputUses EDID on Output (sink)

param2

Source

[0 ... 17]

Source	Description
0	Default EDID
1 8	EDID bank
1 17	Output

param3

Target

[STRING]

Target	Description
input	Specifies an input
bank	Specifies an EDID bank

param4

Target

[1 ... 8]

Value	Description
1 16	Input
1 8	EDID bank

(continued on next page)

Notes:

If param1 = default or param1 = dynamic, set param2 = 0.

Using Dynamic EDID

When *param1* = dynamic, the specified input will be set to *Dynamic EDID*. This can be observed by accessing the Manage EDID tab, in the Web interface. When an input is set to *Dynamic EDID*, the input will use the EDID of the last selected output during the routing process. The order in which outputs are routed are important when using *Dynamic EDID*. See the example below.

Examples:

Using Dynamic EDID:

#set_edid dynamic 0 input 4
COPY DYNAMIC EDID TO INPUT4.

In the example above, Input 4 is set to *Dynamic EDID*. If the following routing command is issued, then the EDID from Output 3 (not Output 2) will be used by Input 1.

r 4 2 3 INPUT 4 IS SET TO OUTPUTS 2, 3

However, if we wanted to use the EDID from Output 2, we would write the command as:

r 4 3 2 INPUT 4 IS SET TO OUTPUTS 3, 2

Since Output 2 was the last output that was specified, this will be the EDID that Input 4 will use.

This second example does not use Dynamic EDID but uses the EDID from the specified downstream sink (display, etc):

#set_edid output 1 input 3
COPY OUTPUT1 EDID TO INPUT3.

#set_ir

The $\texttt{#set_ir}$ command sets the IR channel for the matrix.

Syntax:

#set_ir param1

Parameters:

param1

[0 ... 3]

Channel	Description
0	Set IR channel 0
1	Set IR channel 1
2	Set IR channel 2
3	Set IR channel 3

Example:

#set_ir 0

IR CHANNEL IS SET TO CHANNEL 0 (DIP1=OFF, DIP2=OFF)

Channel

#show_fw

The #show fw command displays the current version of matrix firmware.

Syntax:

#show_fw

Parameters:

None

Example:

#show fw

FIRMWARE VERSION = GEF-HDFST-MOD-16416 v1.0X

#show_hdcp

The #show hdcp command displays the HDCP status on the specified input.

Syntax:

#show_hdcp param1

Parameters:

param1

Input

[1 ... 16]

Example:

#show_hdcp 1

INPUT 1 HDCP IS ENABLED

Commands

[1 ... 17]

#show_hpd

The #show_hpd command displays the HPD status of the specified output. Output 17 is HDMI Local Out.

<u>Syntax</u>:

#show hpd param1

Parameters:

param1 Output <u>Example</u>: #show_hpd 4 HPD OF OUTPUT 4 (Output4) IS LOW

#show_ir

The #show ir command displays the IR channel of the matrix.

Syntax:

#show_ir

Parameters:

None

Example:

#show_ir

CURRENT IR CHANNEL IS: 0

#show_out_colordpt

The <code>#show_out_colordpt</code> command displays the highest color depth supported by the specified display based on the EDID. If no display is attached to the specified output, then the command will return NO SIGNAL. Output 17 is **HDMI Local Out**.

<u>Syntax</u>:

#show out colordpt param1

Parameters:

param1

Output

[1 ... 17]

Example:

#show out colordpt 15

12 BITS HDMI

#show_out_res

The #show_out_res command displays the highest resolution supported by the specified display based on the EDID. If no display is attached to the specified output, then the command will return NO SIGNAL. Output 17 is **HDMI Local Out**.

Syntax:

#show_out_res param1

Parameters:

param1

Output

[1 ... 17]

Example:

#show_out_res 15

1080P 60HZ HDMI

Commands

#show_r

The <code>#show_out_colordpt</code> command displays the current routing status of the specified output. Output 17 is HDMI Local Out.

<u>Syntax</u>:

#show_r param1

Parameters:

param1

Output

[1 ... 17]

Example:

#show r 9

OUTPUT 9(Output5) IS ROUTED TO INPUT 5(Input5)

#show_rsense

The #show_rsense command displays the RSENSE status of the specified output. Output 17 is **HDMI Local Out**.

Syntax:

#show rsense param1

Parameters:

param1

Output

[1 ... 16]

Example:

#show rsense 6

RSENSE OF OUTPUT 6 (Output6) IS HIGH

#show_ver_data

The #show ver data command displays the current software and hardware version.

Syntax:

#show_ver_data

Parameters:

None

Example:

#show_ver_data

SOFTWARE AND HARDWARE VERSION: v1.0X PCB-2026*A

Commands

m

The ${\tt m}$ command displays the current matrix routing status. Do not precede the ${\tt m}$ command with the "#" symbol.

<u>Syntax</u>:

m

Parameters:

None

<u>Example</u>:

m OUT: 01 02 03 04 05 06 07 08 IN: 03 03 03 03 03 03 03 03 OUT: 09 10 11 12 13 14 15 16 IN: 03 03 03 03 03 03 03 03 OUT: 17 IN: 03 ALL OUTPUTS ARE UNMASKED

MATRIX IS UNLOCKED

n

The n command displays the routing status of the specified output. Do not precede the n command with the "#" symbol. If *param1* = 0, then the routing status for all outputs will be returned.

<u>Syntax</u>:

n paraml

Parameters:

None

Examples:

To see how this command works, we have already routed Input 2 to Outputs 4, 5, and 9. Now, we'll use the n command to query Output 4:

n 4 004I03

The feedback is abbreviated as: "O04I03" and is read as: "Output 04 Input 03"

We can also query all outputs by setting param1 = 0:

n 0 OUT: 01 02 03 04 05 06 07 08 IN: 08 06 08 08 08 08 08 08 OUT: 09 10 11 12 13 14 15 16 IN: 08 08 08 08 08 08 08 08 08 OUT: 17 IN: 08

Web Interface

Using the built-in Web Server

Access the built-in Web interface by entering the IP address of the matrix that was specified in step 3 under IP / UDP Configuration. Once connected to the matrix, the login screen will be displayed.

Username	Administrator -	
Password	••••	
Login		
		16x16 Modular Matrix for HDM
Login		

Username

Select the username from the drop-down list.

Options: Operator, Administrator

Administrator login provides unrestricted access to all features and settings. Operator login limits access to matrix routing, display information, and routing preset features.

Password

Enter the password for the associated username. The password can also be set using RS-232 or Telnet. See the <code>#set_webui_op_pass</code> and the <code>#set_webui_ad_pass</code> commands.

The Web GUI is divided into four main pages: **Main**, **I/O Setup**, **Manage EDID**, and **Configuration**. Each main page is represented by a tab at the top-most portion of the screen. The **Main**, **I/O Setup**, and **Manage EDID** pages have their own set of sub-tabs. Click on the desired tab / sub-tab to open the desired page.

NOTE: In order to view all four tabs at the top of the screen, the user must be logged in as "Administrator". If logged-in as "Operator", only the **Main** tab will be visible.

Main Routing

Log Out Click Log Out to terminate the current Web session are return to the login page. Power (On / Standby)

Click to toggle between power-on and standby mode.

٦

	Powe	Standby	Log Out	
an UO Setup Manage EDID Configuration Revelling <u>10 Status</u> Disclary Info			Sta	tus
Los Coin St tus Outputs	Inputs		Output	Input #
public legal Type Name Output Imput if 1 Output 1 0 1 2 1 Output 1 0 1 1 Output 2 0 0 2 1 Output 3 0 4 3 3 HOMI Output 3 4 3	Name Type Input1 Input2 Input3 Input4 HDM		1	1
3 HDM Oxfpold 4 ● 4 1 Oxfpold 5 0 6 0 6 1 Oxfpold 6 0 6 0 6 6 6 6 6 6 6 6 6 6 6 7 6 7 7 7 7 6 7	Input4 HDM Input5 Input5 Input7 Input8		2	1
0 Uniques 0 2 0 0 3 Outputh 9 7 0 9 3 Outputh 10 8 0 10 1 Outputh 10 8 0 10 3 HDMI Outputh 11 0 11	Input0 Input0 Input10 Input12 HDM		3	1
S Output13 13 12 13 3 Output14 14 a 14 3 Output15 15 a 15 1 Output16 16 0 16	Input13 Input14 Input16 Input16		4	3
ocal 3 Output17 174.ocal Check All Clear All Save & Recall Routing Presett	Mask / Unmask Roste		5	1
Save Routing Preset: 1 - Presett •			6	1
Preset3 F	reset 4 reset 5		7	1
Preset7	reset 6 reset 7 reset 8		8	3
dive 🚺 HDCP 🚺 Inadive 🔛 Fail 📰 Input Roveling			9	3
			10	3
			11	1
			12	3
			13	3
atus (Output / Input # splays the current routi		s of the matrix.	14	3
-Local	-		15	3
his output is used for loo	cal A/V m	onitoring	16	1
nd cannot be routed.			17-Local	3

Routing I/		EDID Con	figuration								Power Standby] Log O
Lock Matrix												
Status		Outputs			Inputs	_						
Dutput Input #	Туре	Name	Output	Input #	Name	Type						
2 1 3 1 4 3 5 1 6 1 7 1 8 3 9 3 10 3 11 1 12 3 13 3 14 3 15 3 14 3 15 3 16 1 7 1 8 1 9 1 10 3 11 1 12 3 13 3 14 3 14 3 14 3 14 3 15 1 16 1 17 1 18 3 19 3 10 3 11 1 12 3 13 3 14 3 15 3 16 3 10 3 10 3 11 3 15 3 16 3 16 3 17 3 17 3 18 3 19 3 10 4 10 3 10 4 10 4 10 3 10 3 10 4 10 4	HDMI	Output2 Output3 Output4 Output5 Output5 Output5 Output6 Output7 Output8 Output9 Output12 Output12 Output13 Output15 Output16	2 3 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	0 5 0 6 0 7 0 8 0 9 0 10 0 11 0 12 0 13 0 14 0 15 0 16	Input2 Input3 Input3 Input5 Input5 Input5 Input5 Input7 Input9 Input11 Input12 Input13 Input14 Input15 Input16	юм	-					
7-Local 3	Check All	Output17 Clear All			Mask / Unm	15X						
		Save Rout	Save & Recall ing Preset:	1-Preset1 •				Inp	outs			
		Recall Ro		Preset1				-				
				Preset3 [Preset4 [Preset5 [I	npu	it #	N	ame	Туре		
				Presető [Presető [Presető [\bigcirc		1	Inpu	ut1			
Active [вносе (] inactive	O Fail 1	Input Routing	\bigcirc		2	Inpu	ut2			
					۲		3	Inpu	ut3		Г	
					\bigcirc		4	Inpu	ut4	HDMI		
					\bigcirc		5	Inpu	ut5			
							6	Inpu	it6			

15	Input15	
 16 	Input16	
0	Mask / Unmas	sk
		Route

Input

Click the radio button next to the desired input to be routed. Only one input can be selected at a time.

Name

Displays the current name of the input.

Туре

Indicates the type of card that is installed for the listed inputs.

Mask / Unmask

Click this radio button to enable / disable the selected input.

Route

Click the **Route** button to route the selected input to the select output(s).

			16x16 Modular M					
tup Manage EDID Configuration				Power Sta				
Outputs Type Name Output Input #	Inouts Type							
Output1 1 0 1 Output2 2 0 0 1	input1 2 Input2							
Output3 3 HDMI Output4 4 Output5 5 Output	input3 input4 HDMI							
Outputs 6 0 0	input6 Input7							
OutputS 6 2 0 1 OutputS 6 7 0 1 OutputS 10 10 10 1 1	input0							
Output11 11 Image: Control of the second se	1 Input11 2 Input12 HDM							
Output13 13 2 0 1 Output14 14 8 0 1 Output15 15 8 0 1	4 input14							
Output16 16 0 1 Output17 17-Local 11 0								
Check A8 Clear A8 Save & Recall Routing		0.4.4						
Save Routing Preset: 1 - Preset	Outputs							
Preset2 Proced3 Preset4 Proced5	Туре	Name	Output					
Preset5 Preset7 Preset0		Output1	1					
🗈 HDCP 🔹 Inactive 🔛 Fail 🔹 Input Ros		Output2	2					
		Output3	3					
	HDMI	Output4	4					
		Output5	5					
		Output6	6					
	_							
		Output 14	14					
		Output15	15					
		Output16	16					
		Output17	17-Local					
	Check All	Clear All						

Output

Click to place a check mark in the box and select the desired output. Multiple outputs can be selected. This includes the local A/V output (17-Local).

Name

Displays the current name of the output.

Туре

Indicates the type of card that is installed for the listed outputs.

Check All

Click this button to select all outputs.

Clear All

Click this button to clear (deselect) all selected outputs

Lock Matrix

Locks / unlocks the matrix. Once the matrix is locked, settings on the matrix cannot be changed using the front-panel buttons or through the Web GUI. When the matrix is locked, the button text will read "Unlock Matrix" and a red bar will appear across the top portion of the screen with the text "Matrix is LOCKED". Click the "Unlock Matrix" button to unlock the matrix.

eten	PRC							16x16 Modular Matrix for H
in I/O Setup	Manage	EDID Cor	nfiguration					Power Standby
Routing 10 Lock Matrix	Status D	isplay Info		_				Lock Matrix
Status		Outputs				Inputs		
nput Input#	Туре	Name	Output		nput#	Name	Type	
1 1 2 1 3 1 4 3 5 1 6 1 7 1	HDMI	Output1 Output2 Output3 Output4 Output5 Output5 Output7	2 3 4 5 6 7		1 2 3 4 5 6 7	input1 input2 input3 input4 input5 input6 input7	ЮМ	
8 3 9 3 10 3 11 1 12 3 13 3 14 3	HDMI	Output3 Output9 Output10 Output11 Output12 Output13 Output14	9 10 11 12 13		8 9 10 11 12 13 14	input8 input9 input10 input11 input12 input13 input14	юм	
15 3 16 1 .ocal 3	Check Al	Output15 Output16 Output17 Clear All	16		15 16	Input15 Input16 Mask / Unit	135X Route	
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		See Doo	Save & Ker	1 · Pres		Bawa		
			outing Preset	Preset1 Preset2 Preset3 Preset4		Preset 1 Preset 2 Preset 3 Preset 4		
				Presets Preset5 Preset5 Preset5		Treaset 5 Treaset 6 Treaset 7 Treaset 8		

LOCKED.								
Mabix								
		Outputs				Inputs		
putit	Type	Name	Output		Input #	Name	Туре	
4	-	Output1		8 0	1	input1		
1		Output2		8		Input2		
1		Output3		10		input3		
3	HDM	Output4				Input4	HDM	Matrix is LOCKED.
1		Output5		0.0		Input5		INIALITY IS LOCKED.
		Outputs		8		Input6		
		Output7	7	8	7	input7		
3	-	Codeputition and Codeputition	-			100.00	-	
3		Output9	9	0		input9		Unlock Matrix
3		Output10				Input10		UTIOCK MIDUTX
3	HOM	Output11 Output12		8 0		Input11 Input12	HDM	
3	nual	Output12 Output13		2 0		input12 Input13	nusi	
3		Output14				Input14		
3		Output15				Input15	1	
1		Output16		n 2		Input16		
3		Output17				Mask / Linn	ank .	
	Check All	Clear Al						
	CORR. COR	Crear Al					Route	
			Save & Re	call Rout	ng Preset	5		
		Save Ros	iting Preset:	1-Pre	sett + 🗐	Elaven		
	Recall Routing Preset:			Preset	Preset 1			
				Preset		veset 2		
				Preset.		Yeast 3		
				Preset		veset 4		
				Preset	. 0	Yeart 5		
				Preset		veset 6		
				Preset		Yeast 7		
				Preset				
				PTEDEL		TOPELO		

	n PRC							16x16 Mo	dular Matrix for H	
Main 1/0 S			on						Power Standby	Log Out
Routing	NO Status E	isplay Info								
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6 1 7 1		Output5 6 Output7 7	0 0	6	Input6 Input7					
8 3		Output3 8 Output9 9	2 0 2 0	8	Input8 Input9		-			
10 3		Output10 10	8 0	10	Input10					
11 1 12 3	HDM	Output11 11 Output12 12	E 0	11 12	Input11 Input12	ном				
13 3 14 3		Output13 13 Output14 14		13 14	Input13 Input14					
15 3 16 1		Output15 15 Output16 16		15 16	Input15 Input16					
17-Local 3		Output17 17-Loc	8 8 0	-	Mask / Unm					
	Check All					Route				
		Save &	Recall Routing							
		Recall Routing Pres			eset 1					
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			Sa	ve	81	Rec	all Routing Pre	sets		
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							Preset2	Preset 2		
							1163612	1103012		
							Preset3	Preset 3		
							Preset4	Preset 4		
							1103014			
							Preset5	Preset 5		
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							Preset7	Preset 7		
							Preset8	Preset 8		
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Save Routing Preset

Saves the current routing state to memory. Click the drop-down list to select the desired routing preset. Click the **Save** button to save the preset to memory.

Recall Routing Preset

Loads the selected routing state into memory. Click the desired button to load the desired routing preset into memory.

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tput 1	Input #	Туре	Name Output1	Outpu	1	Inp	ut#	Name Input1	Type
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	3 3 1 3 3	ном	OutputS Output9 Output10 Output11 Output12 Output13	8 9 10 11 12 13		000000	8 9 10 11 12 13	Input8 Input9 Input10 Input11 Input12 Input13	ном
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Legend -

Provides color-coded information on the status of each Input and Output.

Active

Indicates that the Input / Output is active (connected to a source or a sink).

HDCP

Indicates that an HDCP source is being used on the input.

Inactive

No input source or output (sink) is connected.



This error indicates that the source is unable to communicate with the display (sink) device.

Input Routing

Displays the current routing status of an input when a radio button, under the Input # column, is selected.

Main 🗆 I/O Status

								Outs	out											
ame	1 Output1	2 0xtput2	3 Output3	4 Output4	6 Output5	6 Output5	7 Output7	B OutputS	9 Output9	10 Output10	11 Output11	12 Output12	13 Output13	14 Output14	15 Output 15	16 Output16	17-Local			
SENSE Insk PD DCP	Off Off Low Inactive	Off Off Low	Off Low Itactive	Off Low Inactive	Orr Low Inactive	Off Low Isactive	Off Low Inactive	Off Low Inactive	On On Low	NA NA)									
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Output

Displays the state of each output for each of the following: Name, RSENSE, Mask, HPD (Hot-Plug Detect), and HDCP.

Name

Displays the name of the output. The name of the output can be changed using the Web GUI (I/O Setup ► I/O Names) or using the #set_output_name command.

RSENSE

Displays the current Rsense state.

Mask

Displays the masking state of each output.

HPD

Displays the Hot-Plug Detect (HPD) state of each output.

HDCP

Indicates if HDCP-detection is enabled or disabled on each output.

Video Mode

Displays the current output video mode.

Routing																	
	NO Statu	Disp	lay Info														
								Outp	xut								
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17-Local
Name	Output1	Output2	Output3	Output4	OutputS	Output5	Output7	Output8	Output9	Output10	Output11	Output12	Output13	Output14	Output15	Output16	NIA
RSENSE	Off	07	01	Off	Off	01	Off	Off	or	01	Off	orr	01	Off	Off	07	
Mask	Off	or	01	011	orr	Off	Off	on	or	Off	Off	orr	or	Off	Off	or	
HPD	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	
HDCP	inactive	inactive	Inactive	inactive	inactive	inactive	inactive	inactive	inactive	inactive	inactive	inactive	inactive	inactive	inactive	inactive	
Video Mode	HDM	HDMI	HDMI	HOM	HDMI	HDMI	HDM	HDM	HDMI	HDMI	HOM	HDMI	HDMI	HDM	HDM	HDMI	NA
	1	2	3	4	5	6	7	8	9	10	Q 11	12	13	14	15	16	1
Name	input1	input2	input3	input4	input5	input/s	input7	input8	input9	input10	Insut11	input12	input13	input14	input15	input16	1
			input3	input4	input5	input6	input7	input8	input9	input10	Irov(11	input12	input13	input14	input15	input16	
Color Depth Color Space	input1	input2		-			input7 -			input10 -	1834811 -	input12	input13 -	input14 -		-	
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		E.		Input		
	1		7	8	9	10
Name	Input1		Input7	Input8	Input9	Input1
Color Depth	-		-	-	-	-
Color Space	-		-	-	-	-
HDCP	No		No	No	No	No
3D	No		No	No	No	No
Active Signal	No		No	No	No	No
Vertical Resolution	-	L	-	-	-	-
Horizontal Resolution	-	L	-	-	-	-
Progressive / Interlaced	-	L	-	-	-	-
Refresh Rate	-		-	-	-	-
Video Mode	HDMI		HDMI	HDMI	HDMI	HDMI

Input

Displays the state of each input for each of the following: Input name, Color Depth, Color Space, HDCP, 3D, Active Signal, Vertical Resolution, Horizontal Resolution, Progressive / Interlaced, and Refresh Rate.

Main 🗆 Display Info

Choose EDID	Default EDID 🗸	
		_
IO Setup Manage EDID Configuration		16x16 Modular Matrix for Power Standay
ING Status Display Info)	
Feature Inne Rate Inte Cate International International International International In		
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Name HDM-DA Audio Formats TRUE PALSE	Г. <u> </u>	
NN 674.55 92N PALSE NUHO PALSE	F	Feature
	24Hz Frame Rate	TRUE
	Max Resolution	1080P@60Hz
	Max Color Depth	12 bit
	3D Capable	FALSE
	Mode (DVI/HDMI)	HDMI
	Max Audio Channels	2 Ch
	Monitor Name	HDMI-DA
	Aud	io Formats
	LPCM	TRUE
	DTS-HD	FALSE
	DTS Digital Surround	FALSE
	Dolby Digital (AC3)	FALSE
	Dolby TrueHD	FALSE

Choose EDID

Select the EDID from the drop-down list. The selected EDID will be copied from the selected EDID Bank or Output to the desired input(s) and used by the source.

Options:

Default EDID, Bank 1 ... Bank 8, Output 1 ... Output 16, 17-Local

Feature / Audio Formats

Displays the capabilities of the display (or sink device), based on the EDID.

Gefen PRO		16x16 Modular Matrix for HDMI Power Mandry Log Out
Preset Names I/O Names I/O Control F14 Freezer A Iron A <th>IT HOCP</th> <th></th>	IT HOCP	
Save Changes Cancel	E	dit Preset Names
	Preset #	Name
	1	Preset1
	2	Preset2
	3	Preset3
	4	Preset4
	5	Preset5
	6	Preset6
	7	Preset7
	8	Preset8
	Save	Changes Cancel

I/O Setup 🗆 Preset Names

Name

Type the desired name of the Preset in this field. Click the **Save Changes** button to save the Name. Click the **Cancel** button to cancel any changes and restore the previous name.

Save Changes

Saves the current changes.

Cancel

Restores the previous names for each Preset, if a change was made.

Edit Codput. Å lenger. Name djud Name ingol # 1 Output 1 2 Output 2 3 Output 3 4 Output - 5 Output - 6 Output - 7 Output - 8 Output - 9 Output -	1000 1920		
0	Edit Output		es Name
Output		Input #	
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2	Output2	2	Input2
3	Output3	3	Input3
4	Output4	4	Input4
5	Output5	5	Input5
6	Output6	6	Input6
	1		1
13	Output13	13	Input13
14	Output14	14	Input14
15	Output15	15	Input15
16	Output16	16	Input16
17-Local	Output17		

I/O Setup 🗆 I/O Names

Name

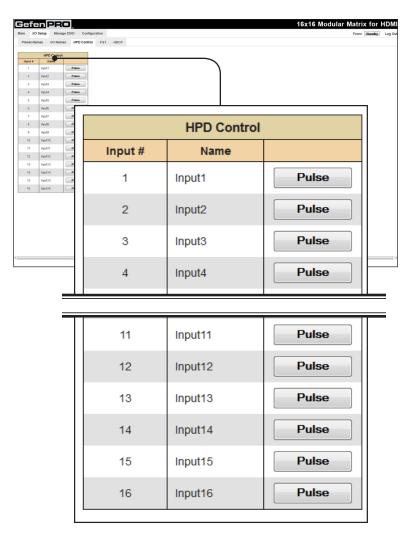
Type the desired name of each Output or Input in these fields.

Save Changes

Click this button to save the Input / Output name.

Cancel

Click this button to cancel the name change(s).



I/O Setup HPD Control

Pulse

Click the Pulse button to cycle the HPD line on the desired input. This is the equivalent of physically disconnecting and reconnecting the HDMI cable between the source device and the matrix.

I/O Setup FST

Statistics Topological Name 9 Sev 1 rgod1 9 Sev 2 rgod2 9 Sev 3 rgod3 9 Sev 4 rgod3 9 Sev 6 rgod3 9 Sev 6 rgod3 9 Sev 6 rgod3 9 Sev 6 rgod3 9 Sev 8 rgod4 9 Sev 8 rgod4	Fact Outlet		
Stow 10 Input10 Stow 11 Input11 Stow 12 Input12 Stow 13 Input13 Stow 14 Input14	Fast Switchi	Input #	Name
Stow 15 input15 Stow 16 input16 Stow 16 input16 Set Cancel	Fast Slow	1	Input1
	Fast O Slow	2	Input2
	Fast Slow	3	Input3
	Fast O Slow	4	Input4
	Fast Slow	5	Input5
	East Slow	6	Input6
1	Fast O Slow	13	Input13
	Fast O Slow	14	Input14
	Fast Slow	15	Input15
	Fast O Slow	16	Input16
		Set	Cancel

FST

Click to select / deselect the desired input(s). Inputs with a check mark will *enable* the FST feature. FST is enabled by default. Use the **Set** button to save changes.

Check All

Places a check mark in each box under the FST column.

Clear All

Clears all check marks from the FST column.

Set

Click this button to save changes for all input(s). The Web GUI will display a prompt to verify the selected operation.

Cancel

Cancels the current operation and ignores changes for each input, if a change was made.

i

I/O Setup HDCP

NOTE: Some computers will enable HDCP if an HDCP-compliant display is detected. Use the Disable feature to force the computer to ignore detection of an HDCP-compliant display. The Disable feature does <u>not</u> decrypt HDCP content.

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	IO Names HPD Control	FST HDCP		- CONT LIAMAN	4. 1090
	ss Through				
able Input#	Name Input1				
2	input2 input3				
4	Input4 Input5				
6	input6				
7 8	Input7 Input8				_
9	input9				- H
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12	input12		HDCP Pass	inrougn	
13	input13 Input14				
15	input15 input16	Disable	Input #	Name	
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			15	Input 15	Th
			10	Input15	
					18
			16	Input16	
		Check All	Se	t Cancel	
		Class All			
		Clear All			
					- 88

Disable

Click to select / deselect the desired input(s). Inputs with a check mark will *disable* the HDCP feature. Use the **Set** button to save changes.

Check All

Places a check mark in each box under the Disable column.

Clear All

Clears all check marks from the Disable column.

Set

Click this button to save changes for all input(s). The Web GUI will display a prompt to verify the selected operation.

Cancel

Cancels the current operation and ignores changes for each input, if a change was made.

Manage EDID 🗆 Assign

Lock EDID

Secures the Local EDID and disables automatic EDID loading during power-up.

If the **Lock EDID** button is clicked (enabled), the "EDID locked on power cycle" message will be displayed in red. The local EDID information will now be locked once the matrix is rebooted. Click the **Unlock EDID** button to disable the Lock EDID feature.

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Copy EDID From

Select the EDID from the drop-down list. The EDID will be copied from the selected destination to the desired input or EDID bank.

Options:

Default EDID, Bank 1 ... Bank 8, Output 1 ... Output 16, Output 17 (Local)

					Inputs		
Сору То	EC	DID M	odes	Input #	Name	EDID Source	EDID Name
	Cu	stom	•	1	Input1	Output1	
	Cu	stom	•	2	Input2	Output1	
	Cu	stom	•	3	Input3	Output1	
	Cus	stom	•	4	Input4	Output1	
	Cu	stom	•	5	Input5	Output1	
	Cus	stom	•	6	Input6	Output1	
	Com		_	7	Input7	Output	
Course - Course -	1 Input1 2 HypL2 3 HypL3 4 HypL4 4 HypL4 4 HypL4 6 HypL4 7 HypL7 8 HypL4 10 HypL4 11 HypL4 12 HypL4 13 HypL7 14 HypL4 15 HypL5 16 HypL5 16 HypL5 16 HypL5 16 HypL5 16 HypL5 17 HypL5 18 HypL5 19 HypL5 16 HypL5 17 HypL5 18 HypL5 19 HypL5 10 HypL5 11 HypL5 12 HypL5 13 HypL5 14 HypL5 15 HypL5 <t< th=""><th>Ouget1 Output1</th><th>Present/10 Present/10 Present/10 Present/10 Present/10 Present/10 Present/10 Present/10 Present/10 Present/10 Present/10 Present/10 Present/10 Present/10</th><th></th><th></th><th></th><th></th></t<>	Ouget1 Output1	Present/10 Present/10 Present/10 Present/10 Present/10 Present/10 Present/10 Present/10 Present/10 Present/10 Present/10 Present/10 Present/10 Present/10				
2 0084 3 084 4 084 5 084 6 084 7 084 7 084 0		NA NA NA NA NA NA Co	ey Cancel				

Сору То

Click to select or deselect the desired input(s).

EDID Modes

If the EDID Mode is set to *Last Output*, then the EDID source will be set to Dynamic EDID. See the #set_edid command for details on using Dynamic EDID.

If the EDID Mode is set to *Custom*, then the EDID of the display that is connected to Output 1 will be used.

Options: Custom, Last Output

Check All

Places a check mark in each box under the **Copy To** column.

Clear All

Clears all check marks from the Copy To column.

		Date Ent	D Cort	suration										ower Stee	Ber
	O Setup Ma Bank Names												P	ower Stee	dby.
Look EDI	rom Default EDI	0 -													
	o Please select!		puts Banks I	below											
			Inputs												
Copy To	EDID Modes Custom •	input #	Name Input1	EDID Searce Output1	EDD Name PanasonicTV0										
	Custom +	2	input2	Output1	PanasonicTV0										
0	Custom + Custom +	3	Input3	Output1 Output1	PanasonicTV0 PanasonicTV0										
	Custom ·	6	InputS	Output1	PanasonicTV0										
8	Custom •	6	input5 Input7	Output1 Output1	PanasonicTV0 PanasonicTV0										
13	Custom +	8	Input8	Output1	PanasonicTV0										
8	Custom •	9	Input3	Output1 Output1	PanasonicTV0 PanasonicTV0										
0	Custom +	11	Input11	Output1	PanasonicTV0										
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8	Custom +	14	Input14	Output1	PanasonicTVD										
0	Custom +	15	Input15 Input16	Output1 Output1	PanasonicTV0 PanasonicTV0										
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		2		Banl	k1 k2 k3				I/A						
		2 3		Banl Banl Banl	k1 k2 k3 k4				1/A 1/A						
		2 3 4		Banl Banl Banl Banl	k1 k2 k3 k4 k5				N/A N/A N/A						
		2 3 4 5 6		Banl Banl Banl Banl Banl Banl	k1 k2 k3 k4 k5 k6				V/A V/A V/A V/A						
		2 3 4 5 6 7		Banl Banl Banl Banl Banl Banl Banl	k1 k2 k3 k4 k5 k6 k7				V/A V/A V/A V/A V/A						
		2 3 4 5 6		Banl Banl Banl Banl Banl Banl	k1 k2 k3 k4 k5 k6 k7				V/A V/A V/A V/A						
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	c All	2 3 4 5 6 7		Banl Banl Banl Banl Banl Banl Banl	k1 k2 k3 k4 k5 k6 k7				V/A V/A V/A V/A V/A	Сору		Са	ncel		
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	c All	2 3 4 5 6 7		Banl Banl Banl Banl Banl Banl Banl	k1 k2 k3 k4 k5 k6 k7				V/A V/A V/A V/A V/A	Сору		Ca	ncel		

Check All

Places a check mark in each box under the **Copy To** column.

Clear All

Clears all check marks from the **Copy To** column.

Сору

Click this button to copy the specified EDID to the selected inputs / banks.

Cancel

Restores the previous EDID state for each input, if a change was made.

Gefen PRO		16x16	Modular Matrix for HDMI
Main I/O Setup Manage EDID Conf Assign Bank Names Upload/Downlo	Iguration		Power Standby Log Out
Edit Books Homes 1 Book 2 Book 3 Book 4 Uotek 5 Book 6 Book 7 Sook 0 Book			
Serve Changes Cancel	E	dit Banks Names	
	Bank #	Name	
	1	Bank1	
	2	Bank2	
	3	Bank3	
	4	Bank4	
	5	Bank5	
	6	Bank6	
	7	Bank7	
	8	Bank8	
	Save	Changes Cancel	

Manage EDID 🗆 Bank Names

Bank

Indicates the EDID bank number.

Name

Type the desired name of the EDID bank in this field. Click the **Save Changes** button to save the bank name. Click the Cancel button to restore the previous name.

Save Changes

Saves the current name change to the EDID bank(s).

Cancel

Restores the previous names for each EDID bank, if a change was made.

Manage EDID 🗆 Upload/Download

Browse...

Click this button to select the EDID file to be uploaded.

Upload

Click this button to upload the EDID to the specified bank.

Select Bank Location

Click this drop-down list to select the bank to where the EDID will be uploaded.

Options: Bank 1 ... Bank 8

	Upload EDID Select EDID File to Upload: Browse_ Select Bank Location: 1-Bank1 Vpload
Man Uo Suno Manger CD Configuration Arange Rein New UpdatDownload UpdatExercise Arange Arange Arange Here EDD for to Spread Here EDD for to Spread Here EDD for to Spread Here EDD for to Spread Here EDD CONFIGURATION Deveload EDD CONFIGURATION Configuration Arange Arange Configuration Arange Arange Arange Configuration Arange Arange Configuration Arange Arange Configuration Arange Arange Configuration Arange Arange Configuration Arange Configurati	Download EDID Select EDID File to Download: Default EDID Download

Select EDID File to Download

Click this box to select the EDID that is to be saved to a file. The EDID file will be saved in binary (.bin) format.

Download

Click this button to download the selected EDID to a file.

Options: Bank 1 ... Bank 8, Output 1 ... Output 16, Output 17 (Local), Input 1 ... Input 16

Configuration Change IP Settings

Configuration TorNet Immer Port UpP Por	16x16 Modular Matrix for HDMI
Change IP	Settings
MAC Address:	00:1c:91:03:70:1c
IP Address:	192.168.2.239
Subnet:	255.255.255.0
Gateway:	192.168.1.1
Port:	80
TCP/Telnet Terminal Port:	23
UDP Port:	50007
Save	e Settings Set Defaults

Change IP Settings

Assigns the IP address, subnet, gateway, HTTP listening port, Telnet port, and UDP port. The MAC address cannot be changed.

Save Settings

Saves the current settings for the Change IP Settings. After clicking this button, the Web interface will display a dialog indicating that the matrix must be rebooted for changes to take effect.

Set Defaults

Click this button to restore the factory-default IP settings. After clicking this button, the Web interface will display a dialog indicating that the matrix must be rebooted for changes to take effect.

Configuration Telnet Login Settings

Main I/O Setup Manag	e EDID Configuration			Power Standby Log Out
Change	IP Settings			
MAC Address:	00:1c:91.03:70:1c			
IP Address: Solved	192.168.2.239 265.265.265.0			
Gateway:	192.168.1.1			
Port	80			
TCP/Telnet Terminal Port UDP Port	23 80007			
	vo Settings Set Defaults			
Cid Password:	ain Settings			
New Password:		1		
Confirm New Password: Force Password on Connect:	2			
Show Login Message on Connec				
	Save Settings			
	ction Settings			
Remote UDP IP Address:	192 168 1 255			
Remote UDP Port Enable UDP Access:	50005			
	Telno	et Login S	ettings	
Old Pass	sword.			
New Pas	sword:			
Confirm	New Password:			
Force Pa	assword on Conne	ct:	1	
ShowLo	gin Message on C	onnect:	V	
SHOW LO	gin message on C	United.		
				Save Settings

Old Password

Type the current (old) password in this field.

New Password

Type the new password in this field.

Force Password on Connect

Click this check box to have the matrix prompt for a password each time a Telnet session is started. This box *must* be checked in order to change the Telnet Login credentials.

Show Login Message on Connect

Click this check box to have the matrix display the Telnet welcome message each time a Telnet session is started. The welcome message appears as: "Welcome to GEF-HDFST-MOD-16416 TELNET".

Save Settings

Saves the current changes to the Telnet Login Settings.

Sefen PRO	16x16 Modular Matrix for HDMI
Main I/O Setup Manage EDID Configuration	Power Standard Log Out
Change IP Settings	
MAC Address: 00.1c.91.03.70.1c	
IP Address. 192.103.2.239 Subnet. 285.255.50	
Cateway: 192.160.1.1	
Port: 80 TCP/Telnet Terminal Port: 23	
UDP Port 50007	
Save Settings Set Defaults	
Telnet Login Settings Old Password:	1
New Password	
Confirm New Password Force Password on Connect:	
Show Login Message on Connect:	
Save Settings	
UDP Connection Settings	
Remote LUCP IP Address: 112 1101 255	
Remote UDP Port: 50005	
Enable UDP Access:	
UDP Connect	tion Settings
Remote UDP IP Address:	192.168.1.255
Remote ODF IF Address.	192.100.1.200
Remote UDP Port:	50008
Remote ODF FUIL	00000
Enable UDP Access:	Save Settings
Enable UDP Access:	Save Settings

Remote UDP IP Address

Type the remote UDP IP address in this text box.

Remote UDP Port

Enter the remote UDP port in this text box.

Enable UDP Access

Check this box to enable UDP access. If this box is unchecked, the UDP access will be unavailable.

Configuration Web Login Settings

Web Lo	ogin Settings
Username:	Operator 🔹
Old Password:	••••
New Password:	
Confirm New Password:	
	Save Settings
Save Bettings Set Defaults Teinet Login Settings	
New Password:	
Confirm New Password: Foto: Password on Connect: Show Login Wessage on Connect: Show Login We	
Show Login Kessage on Connect: 20 Bowe Bettings	
UDP Connection Settings	
Remote UDP IP Address: 192.100.1265 Remote UDP Part: 50005	
Enable UDP Access:	
Sove Settings	
Web Login Settings	
Old Password	
Save Settings	
System Configuration	
Download Current Configuration Download	
Restore Configuration Droese.	
Warning: All current actings will be lost Reasone	
Firmware Update (UI ver. v1.0X) Drowse. Update	
Factory Reset Reset	

Username

Click this drop-down list to select the username to be changed.

Old Password

Type the current (old) password in this field.

New Password

Type the new password in this field.

Confirm Password

Re-type the new password in this field.

Save Settings

Saves the current changes to the Web Login Settings.

Configuration System Configuration

System Configuratio	n
Download Current Configuration	Download
Restore Configuration Browse_	
Warning: All current settings will be lost	Restore
Firmware Update (UI ver: v1.0X)	
Browse_	Update
Factory Reset	Reset
Reboot	Reboot
TelestLogin Settings Old Paravert New Person d	
Column New Yassood Twan Peasood and Connect II Show Lagn Nescage on Connect II Some Settings	
UDP Connection Entings Remote UDP Address 10:00 10:0 Entends UDP And Entends UDP Ancess:	
Web Login Settings Username Or Present Conference Demonte Bits Settings	
Bystem Configuration Devisited Curret Configuration Reture Configuration Womay All constraint stratings will be tool Womay All constraint stratings will be tool	
Ferman Update (U vo: v1 DQ) Brown, Update Factory Reset Reset	
Relocal Relocat	

Download

Click this button to download the current matrix configuration to a file.

(continued on next page)

page | 118

Web Interface

System Configuration	on
Download Current Configuration	Download
Restore Configuration Browse_ Warning: All current settings will be lost	Restore
Firmware Update (UI ver: v1.0X)	
Browse_	Update
Factory Reset	Reset
Reboot	Reboot
Browse Click this button to select the firmware file to be uploaded. See Upgrading using the Web interface for details on updating the firmware.	
Browse Click this button to select the saved configuration file to be loaded into memory.	
Restore	

Uploads the selected configuration file to the matrix.

Update

Updates the matrix with the selected firmware file.

Reset

Click this button to set the matrix to factory-default settings. The IP settings are preserved.

Reboot

Click this button to reboot the matrix.

16, 16 sources displays Modular Matrix for HDMI with HDCP

04 Appendix

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Card Removal and Installation

Although each 16x16 Modular Matrix for HDMI w/ HDCP is sold pre-configured, both input and output cards can be removed or added to fit the needs of the application. Each module can easily be removed and installed without using any special tools.

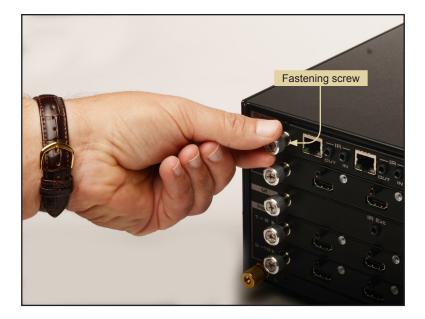
WARNING: Modules are sensitive to Electrostatic Discharge (ESD) which can damage the module. Avoid touching the module contacts or the components on the module. Always hold modules by the edges or by the knobs on the front of the module. Never slide a module over any surface. When installing/replacing modules, do not install an input module in to an output slot or an output module to an input slot. This will damage the matrix and void the warranty.

- 1. Power-off the matrix.
- 2. Turn the matrix around so that you are facing the back of the unit.



STOP: Before installing modules and prevent the risk of possible electrical shock, unplug the AC power cord from back of the matrix.

3. Loosen the fastening screws on both sides of the card (or cover plate) to be removed. Each card / cover plate has two fastening screws.

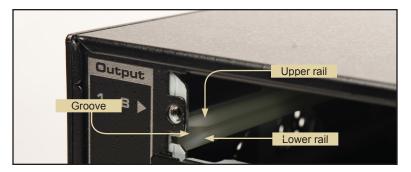


4. Grab the fastening screws on both sides of the card, between the thumb and index finger, and gently pull to remove the card from the matrix. If a cover plate is being removed, then loosen the fastening screws on both sides of the cover plate and gently remove the cover plate.





5. Locate the grooved track on either side of the expansion bay.



6. Carefully position the card between the upper and lower rail on each track.



7. Use both hands to push the card until it snaps in place.



8. Secure the card by hand-tightening the fastening screws. Do not overtighten the screws. To prevent damage to the screws, do not use pliers or other high-torque devices.



Power Supply Failure and Replacement

Power Supply Failure

The 16x16 Modular Matrix for HDMI w/ HDCP comes with two internal (hot-swappable) power supplies. If one of these power supplies should fail, a high-pitched alarm will sound from the matrix. POWER SUPPLY FAILURE! will appear in the front panel display. The matrix can function with a single power supply. However, the POWER SUPPLY FAILURE! message will be displayed instead of the *home screen*, until the power supply is replaced.

If the Web interface is being used, then the following message will appear on the page:

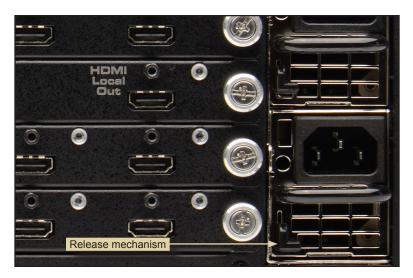
Configuration		FAILURE: Power Supply Failure!				
fo						
outs			Inputs			
ne	Output	Input #	Name	Туре		

If the matrix is being controlled using RS-232 or Telnet, the POWER SUPPLY FAILURE! message will appear within the terminal application.



Power Supply Replacement

- 1. Press the **Power** button to cancel the alarm. It is not necessary to power-off the matrix when replacing a power supply.
- 2. Locate the release mechanism on the power supply to be removed (the Gefen 32x32 Matrix for HDMI w/ HDCP is shown).



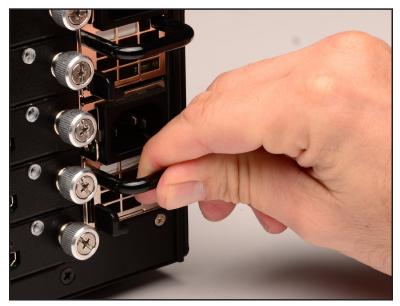
3. Grab the power supply handle and release mechanism between the thumb and index finger and squeeze. The release mechanism will move in an upward direction.



4. Gently pull the power supply as you continue to hold the release mechanism. Once the power supply is released, pull the handle to remove the power supply.



- 5. Gently push the new power supply into place. The power supply will snap into place once it is fully installed.
- 6. Check that power supply is secured by pulling on the handle. The power supply should not move without using the release mechanism.



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Firmware Upgrade Procedure

Upgrading using the Web interface



IMPORTANT: DO NOT power-off or disconnect the AC power cord from the matrix, at any time, during the firmware upgrade process.

- 1. Download the firmware update from the Support section of the Gefen Web site.
- 2. Extract the firmware file from the .ZIP file.
- 3. Power-ON the 16x16 Modular Matrix for HDMI w/ HDCP.
- 4. Connect an Ethernet cable between the matrix and the computer running the Web interface.

It is unnecessary to disconnect any cables or extenders from the 16x16 Modular Matrix for HDMI w/ HDCP during the update process.

- 5. Click the **Configuration** tab in the Web interface and click the **Browse...** button under the **System Configuration** section.
- 6. Select the firmware file and click the **Update** button.
- The matrix will display a prompt to verify that the current firmware will be overwritten. Click the **OK** button on the dialog box to begin uploading the firmware file.
- 8. Once the firmware file has been uploaded, the matrix will verify the firmware content. The front-panel display will display the following if the firmware passes:



9. After the firmware file integrity has been verified, the matrix will begin the upgrade procedure. The upgrade progress will be displayed in the front-panel display.



10. After the matrix has been updated, the unit will automatically initiate a countdown to reboot. The Power button can be pressed to bypass the countdown without harming the upgrade process. The display will display the following message:



11. After the matrix reboots, the firmware upgrade process will be complete.

Upgrading using USB



IMPORTANT: DO NOT power-off or disconnect the AC power cord from the matrix, at any time, during the firmware upgrade process.

- 1. Download the firmware update from the Support section of the Gefen Web site.
- 2. Power-ON the 16x16 Modular Matrix for HDMI w/ HDCP.
- Connect a USB cable between the computer and the 16x16 Modular Matrix for HDMI w/ HDCP.

It is unnecessary to disconnect any cables or extenders from the 16x16 Modular Matrix for HDMI w/ HDCP during the update process.

- 4. Once the computer is able to connect to the 16x16 Modular Matrix for HDMI w/ HDCP, a Removable disk icon will be displayed under My Computer.
- 5. Extract the firmware file from the .ZIP file and drag the .bin file to the Removable Disk.
- 6. Disconnect the USB cable from the computer.
- 7. The matrix will verify the firmware content. The front-panel display will show the following if the firmware passes.



8. After the firmware file integrity has been verified, the matrix will begin the upgrade procedure. The upgrade progress will be displayed in the front-panel display.



 After the matrix has been updated, the unit will automatically initiate a countdown to reboot. The **Power** button can be pressed to bypass the countdown without harming the upgrade process.



10. After the matrix reboots, the firmware upgrade process will be complete.

Specifications

Supported Formats	
Resolutions (max.)	• 1080p Full HD
Electrical	
Maximum Pixel Clock	• 225 MHz
Connectors	
Inputs (16 x max.) (Organized into 2 banks of 8 each)	HDMI Type-A, 19-pin, female
Outputs (16 x max.) (Organized into 2 banks of 8 each)	 HDMI Type-A, 19-pin, female ELR-POL, RJ-45
RS-232	• 1 x DB-9, female
Ethernet	• RJ-45 (100BaseT)
USB (for firmware update only)	1 x Mini-B, female
IR Sensor	1 x Optical, front panel
IR Extender (Matrix)	1 x 3.5mm mini-stereo
IR Extender (Receiver)	1 x 3.5mm mini-stereo
IR In (Matrix)	 1 x 3.5mm mini-mono ELR card: 8 x 3.5mm mini-mono (per output)
IR Out (Matrix)	 1 x 3.5mm mini-mono ELR card: 8 x 3.5mm mini-mono (per output)
IR Out (Receiver)	1 x 3.5mm mini-mono

Operational	
Power Input	• 2 x 100 - 240V AC (hot-swappable)
Power Consumption	500W (each power supply)

Physical	
Dimensions (W x H x D)	 17.4" x 5.1" x 16.8"
(Matrix w/o feet)	(440mm x 130mm x 427mm) (w/o feet)
Dimensions (W x H x D)	• 4.3" x 1" x 3.3"
(Receiver)	(108mm x 26mm x 83mm)
Unit Weight	• 30.6 lbs (13.9 kg)



Stretch it, Switch it, Split it, Control it. Gefen's got it. ®

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This product uses UL or CE listed power supplies.