

### 4x4 HDMI Matrix Switch/Splitter – 4K 60 Hz

Model: B119-4X4-4K6-VW



Purchased product may differ from image.

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# Table of Contents

| 1.  | Safety Instructions                     | 3  |
|-----|---|----|
| 2.  | Introduction                            | 3  |
| 3.  | Product Features                        | 4  |
| 4.  | Package Contents                        | 4  |
| 5.  | Specifications                          | 5  |
| 6.  | <b>Operation Controls and Functions</b> | 6  |
| 7.  | IR Remote                               | 7  |
| 8.  | IR Cable Pin Assignment                 | 8  |
| 9.  | EDID Management                         | 9  |
| 10. | Video Wall                              | 10 |
| 11. | Web GUI User Guide                      | 11 |
| 12. | RS-232 Control Command                  | 22 |
| 13. | Application Example                     | 30 |
| 14. | Warranty                                | 31 |

## **1. Safety Instructions**

Thank you for purchasing the B119-4X4-4K6-VW. For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

### Surge Protection Device Recommended

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



## CAUTION

This product requires the use of UTP connectors. Please connect in direct interconnection method and do not cross-connect.



### 2. Introduction

The 4x4 HDMI Matrix Switch/Splitter is a multi-purpose high-speed video processing system that you can configure for two different output modes.

It features a web browser interface module for control and configuration of the unit when used stand-alone or with a third-party control system.

You can control the HDMI Matrix Switch/Splitter using front-panel buttons, the included IR remote, RS-232 commands or TCP/IP.

## **3. Product Features**

- Features 2 operational modes: 4x4 matrix (seamless switch) and video wall (2x2, 4x1, 1x4, etc.)
- Video inputs support all industry-standard video resolutions, including VGA–WUXGA (up to 1920 × 1200 @ 60 Hz) and 480i–4K (3840 x 2160 @ 60 Hz 4:4:4, 4096 x 2160 @ 60 Hz 4:4:4)
- · HDCP 2.2 and HDCP 1.4 compliant
- HDMI outputs support upscale or downscale to any resolution up to 4096 x 2160
   @ 60 Hz 4:4:4
- Support LPCM, Dolby Digital, Dolby Digital Plus, DTS, Dolby TrueHD and DTS HD-master pass-through
- Advanced EDID management
- · Web interface module for control and configuration of the unit
- · Control via front-panel buttons, IR remote, RS-232 commands or TCP/IP
- · Third-party drivers available for all major home control brands

### 4. Package Contents

- · 4x4 HDMI Matrix Switch/Splitter
- External Power Supply
- 12V 2.5A Locking Power Plug (AS/NZS 3112 Australia, BS 1363 U.K., CEE 7/16 Schuko, NEMA 1-15P North America)
- IR Remote
- 20–60KHz IR Wideband Receiver Cable, 5 ft. (1.5 m)
- · 3-Pin 3.81 mm Phoenix Connector
- (4) KM 3x4 Machine Screws
- (2) Mounting Ears
- User Documentation

# 5. Specifications

| Technical              |  |
|------------------------|--|
| HDMI Compliance        | HDMI 2.0b  |
| HDCP Compliance        | HDCP 2.2/1.4   |
| Video Bandwidth        | 594 MHz/18 Gbps  |
| Video Resolution       | Input: VGA–WUXGA (up to 1920 × 1200 @ 60 Hz) and<br>480i–4K (3840 × 2160 @ 60 Hz 4:4:4, 4096 × 2160 @<br>60 Hz 4:4:4)<br>Output: 4096 × 2160p @ 60 Hz, 4096 × 2160p @ 50 Hz,<br>3840 × 2160p @ 60 Hz, 3840 × 2160p @ 50 Hz,<br>3840 × 2160p @ 30 Hz, 1920 × 1080p @ 60 Hz,<br>1920 × 1080p @ 50 Hz, 1920 × 1080i @ 60 Hz,<br>1920 × 1080i @ 50 Hz, 1920 × 1200p @ 60 Hz,<br>1360 × 768p @ 60 Hz, 1280 x800p @ 60 Hz, 1280 x720p<br>@ 60 Hz, 1280 × 720p @ 50 Hz, 1024 x768p @ 60 Hz,<br>Auto |
| Color Space            | RGB, YCbCr_4:4:4, YCbCr_4:2:2, YCbCr_4:2:0   |
| Color Depth            | 8/10/12 bit  |
| IR Level               | 12Vр-р   |
| IR Frequency           | 38 kHz   |
| HDMI Audio Formats     | LPCM, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio  |
| Connection             |  |
| Input Ports            | 4 × HDMI [Type A, 19-pin female]   |
| Output Ports           | 4 × HDMI [Type A, 19-pin female]   |
| Control Ports          | 1 × RS-232 [3-pin 3.81mm Phoenix Connector]<br>1 × IR EXT [3.5 mm, Stereo Mini-Jack]<br>1 x TCP/IP (RJ45)  |
| Mechanical             |  |
| Housing                | Metal  |
| Color                  | Black  |
| Dimensions (H x W x D) | 1.2 x 10.6 x 6.5 in. / 30 x 270 x 166 mm   |
| Weight                 | 2.6 lb. / 1165 g   |
| Power Supply           | Input: AC 100–240V, 50/60 Hz<br>Output: DC 12V 2.5A<br>(US/EU Standard, CE/FCC/UL Certified)   |
| Power Consumption      | 19.56W (Max)   |
| Operating Temperature  | 32° - 104°F / 0° - 40°C  |
| Storage Temperature    | -4° - 140°F / -20° - 60°C  |
| Relative Humidity      | 20% - 90% RH (Non-Condensing)  |

## 6. Operation Controls and Functions

### 6.1 Front Panel



Power Button: Short-press to power on the unit. In power-on status, press for 1 second to enter standby status.

**2 Power LED:** Lights green during normal operation. Lights red during standby status.

**3 IR Window:** IR signal receiving window.

**4** Signal Source LED: Indicates OUT 1–OUT 4 ports.

**5** Input Source Switching Button: Switches between OUT 1–OUT 4 ports.

### 6.2 Rear Panel



**2** RS-232 3-Pin Phoenix Connector: Connects to a PC or control system for serial port upgrade or RS-232 command control.

**3 IR EXT:** IR signal receiving port connects to included IR Receiver cable. If the IR signal receiving window (see **6.1 Front Panel**) is blocked or the unit is installed in a closed area out of infrared line-of-sight, the IR receiver cable can be connected to this port to receive the IR remote signal.

**4 HDMI Input:** HDMI signal input ports connect to the signal source devices.

**5 HDMI Output:** HDMI signal output ports connect to the HDMI displays.

**6 DC 12V:** Connects to included external power supply.

### 7. IR Remote



- **1** Power On or Standby: Power on the device or set it to standby mode.
- 2 INFO: Displays the serial port baud rate and IP address in the upperright corner of the screen (information will disappear after 5 seconds).

#### **3** INPUT/OUTPUT

- **INPUT 1/2/3/4:** Select the signal input channel.
- **I**: Select the last or next signal input channel.
- **OUTPUT 1/2/3/4:** Select the signal output channel.
- ALL: Select all output channels simultaneously. For example, when you press the "ALL" button and then press INPUT "1" button, the input "1" source will be output to all display devices.

**Note:** After the matrix is turned on, the ALL key is selected by default. For example, after turning on the matrix, press the INPUT 1 button directly, and the INPUT 1 signal will be output to all display devices simultaneously.

- **Res:** Press this button to switch output channel resolution.
  - o **Matrix Mode:** Press OUTPUT 1/2/3/4 or ALL, then press Res to switch the output resolution circularly.
  - o **Video Wall Mode:** Press Res directly to switch the output resolution for four output channels simultaneously.
- Operation Instruction: You need to press the OUTPUT button first and then press the INPUT button to select the corresponding input source. For example, press OUTPUT-X (X means output button from 1 to 4, including "ALL" button), then press INPUT-Y (Y means input button from 1 to 4).

### 7. IR Remote

#### **4** VIDEO WALL:

- Video Wall Mode Selection: Press to enter corresponding mode.
- Source selection for the video wall group:
  - o Press OUTPUT 1/2/3/4 or ◀► to select the video wall group first, then press INPUT 1/2/3/4 or ◀► to select the input source.
  - o Bezel Adjustment: Press ◀► of H-BEZEL / V-BEZEL to adjust the bezel.

### 8. IR Cable Pin Assignment



**Note:** When the angle between the IR receiver and the remote control is  $\pm 45^{\circ}$ , the transmission distance is 0–5 meters. When the angle between the IR receiver and the remote control is  $\pm 90^{\circ}$ , the transmission distance is 0–8 meters.

## 9. EDID Management

This HDMI Matrix Switch/Splitter has 12 factory-defined EDID settings, two userdefined EDID modes and four copy EDID modes. You can select a defined EDID mode or copy EDID mode to input port through RS-232 control or Web GUI.

#### **RS-232 Control Operation**

Connect the HDMI Matrix Switch/Splitter to a PC with a serial cable, then open a Serial Command tool on the PC to send an ASCII command "s edid in x from z!" to set EDID. For details, refer to EDID Setting in the ASCII command list of **12. RS-232 Control Command**.

### Web GUI Operation

Check the EDID management in the Input section of **11. Web GUI User Guide**.



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

| EDID<br>Mode | EDID Description             |
|--------------|------------------------------|
| 1            | 4k2k60_444, stereo audio 2.0 |
| 2            | 4k2k60_444, Dolby/DTS 5.1    |
| 3            | 4k2k60_444, HD audio 7.1     |
| 4            | 4k2k30_444, stereo audio 2.0 |
| 5            | 4k2k30_444, Dolby/DTS 5.1    |
| 6            | 4k2k30_444, HD audio 7.1     |
| 7            | 1080p, stereo audio 2.0      |
| 8            | 1080p, Dolby/DTS 5.1         |
| 9            | 1080p, HD audio 7.1          |

| EDID<br>Mode | EDID Description            |
|--------------|-----------------------------|
| 10           | 1920x1200, stereo audio 2.0 |
| 11           | 1360x768, stereo audio 2.0  |
| 12           | 1024x768, stereo audio 2.0  |
| 13           | user define1                |
| 14           | user define2                |
| 15           | copy from HDMI output 1     |
| 16           | copy from HDMI output 2     |
| 17           | copy from HDMI output 3     |
| 18           | copy from HDMI output 4     |

## 10. Video Wall

The HDMI Matrix Switch/Splitter supports 10 categories of display modes as below:



You can select display modes via IR remote, Web GUI or RS-232 commands.

You can control the HDMI Matrix Switch/Splitter by Web GUI. Before connecting and logging into the Web GUI, you must obtain the current IP address. The default IP address is 192.168.0.100. You can get the current Matrix IP address in two ways:

- Remote controller: Press "INFO" button on the remote control, and the IP address will show the upper right corner of the screen.
- RS-232 control: Send the ASCII command " r ip addr!" through a Serial Command tool, then you'll get the feedback information as shown below:

### ip address: 192.168.0.100

IP:192.168.0.100 in the above figure is the current Matrix IP address (this IP address is variable, depending on what the specific machine returns). For the details of RS-232 control, please refer to **11. RS-232 Control Command**.

The HDMI Matrix Switch/Splitter supports connecting and logging into the Web GUI through PC or MacBook. The specific device connection and setup methods are as follows:

### **Connect via PC**

**Step 1:** Connect the TCP/IP port of the HDMI Matrix Switch/Splitter to a PC with a UTP cable (as shown in the following figure), and connect the Switch/Splitter's power supply to an AC outlet.



**Step 2:** Modify the PC's IP address to 192.168.0.xxx, so that it is in the same network segment as the HDMI Matrix Switch/Splitter. For example, if the Switch/Splitter's IP address is 192.168.0.100, the PC's IP address can be changed to 192.168.0.12. Specific operation steps are shown in the following figures.

### First, open Settings in Windows.

|  |  |                                 | V  | /indows Setti               | ngs  |                        |  |                              |
|--|--|---------------------------------|--|-----------------------------|--|------------------------|--|------------------------------|
|  |  |                                 | Find a setting   | Í.                          | Q  |                        |  |                              |
|  |  |                                 |  |                             |  |                        |  | 1                            |
| 므  | System<br>Display, sound, notifications,<br>power        |                                 | Devices<br>Bluetooth, printers, mo                     | use                         | Phone<br>Link your Android, iPho                           | ne                     | Network & Internet<br>WiFi, flight mode, VPN               |                              |
| چ  | Personalisation<br>Background, lock screen,<br>colours   | Ē                               | Apps<br>Uninstall, defaults, opti<br>features          | onal R                      | Accounts<br>Your accounts, email, sy<br>work, other people | nc, AF                 | Time & Language<br>Speech, region, date                    |                              |
| ⊘  | Gaming<br>Xbox Game Bar, captures, Game<br>Mode          | Ģ                               | Ease of Access<br>Narrator, magnifier, hig<br>contrast | <sub>ph</sub>               | Search<br>Find my files, permission                        | ns 🔒                   | Privacy<br>Location, camera, microphe                      | one                          |
| C  | Update & Security<br>Windows Update, recovery,<br>backup |                                 |  |                             |  |                        |  |                              |
| 4 Sattinas   |  |                                 |  |                             |  |                        |  |                              |
| Generation Setting     Find a setting     Network & Internet | Q  | Ethern                          | et<br>net<br>connected                                 |                             |  |                        | Related settings<br>Change adapter op<br>Change advanced s | tions<br>haring options      |
| Status   |  |                                 |  |                             |  |                        | Network and Sharin   | ng Centre                    |
| <i>ſſ</i> a WiFi   |  |                                 |  |                             |  |                        | Windows Firewall   |                              |
| 🔛 Ethernet   |  |                                 |  |                             |  |                        |  |                              |
| P Dial-up  |  |                                 |  |                             |  |                        |  |                              |
| % VPN  |  |                                 |  |                             |  |                        |  |                              |
| 와 Flight mode  |  |                                 |  |                             |  |                        |  |                              |
| (1) Mobile hotspot   |  |                                 |  |                             |  |                        |  |                              |
| Proxy  |  |                                 |  |                             |  |                        |  |                              |
| 🕎 Network and Sharing  | Center   |                                 |  |                             |  | 📱 以太网 S                | tatus  | ×                            |
| $\leftarrow \rightarrow \cdot \uparrow \Xi$                  | Control Panel > All Control Pan                          | nel Items > Ne                  | twork and Sharing Cente                                | r                           |  | General                |  |                              |
| Control Panel Home   | View your ba   | sic network                     | nformation and set                                     | t up connections            |  | Connection<br>IPv4 Con | nectivity:   | Internet                     |
| Change adapter settin<br>Change advanced sh                  | aring XXXXXX   | X                               |  | Access type:                | d  | IPv6 Con<br>Media St   | nectivity:<br>ate:   | No network access<br>Enabled |
| settings<br>Media streaming opt                              | Public networ  | k                               |  | Connections 🔋 XXX           | XXX  | Speed:                 |  | 1.0 Gbps                     |
|  | Change your netv   | orking settings                 | n or network   |                             |  | Detai                  | s  |                              |
|  | Set up a   | broadband, dia                  | I-up, or VPN connection                                | ; or set up a router or acc | ess point.   | Activity               |  |                              |
|  | Trouble<br>Diagno:                                       | shoot problems<br>and repair ne | twork problems, or get tr                              | oubleshooting informati     | on.  | Butarr                 | Sent —   | - Received                   |
|  |  |                                 |  |                             |  | oyues.                 | tian Disable Disa  |                              |
|  |  |                                 |  |                             |  | Proper                 | Usable Diag  | Close                        |

| Local Area Connection Properties  | Internet Protocol Version 4 (TCP/IPv4) Properties   |  |  |  |  |  |
|---|---|--|--|--|--|--|
| Networking Sharing  | General   |  |  |  |  |  |
| Connect using:  | You can get IP settings assigned automatically if your network supports<br>this capability. Otherwise, you need to ask your network administrator<br>for the appropriate IP settings. |  |  |  |  |  |
| Configure This connection uses the following items:   | Obtain an IP address automatically Use the following IP address:  |  |  |  |  |  |
| Client for Microsoft Networks   | IP address: 192 . 168 200   |  |  |  |  |  |
| He and Printer Shaning for Microsoft Networks     A Internet Protocol Version 6 (TCP/IPv6)     A Internet Protocol Version 4 (TCP/IPv6) | Subnet mask:         255 . 255 . 255 . 0           Default gateway:   |  |  |  |  |  |
| <ul> <li>✓ Link-Layer Topology Discovery Mapper I/O Driver</li> <li>✓ Link-Layer Topology Discovery Responder</li> </ul>                | Obtain DNS server address automatically   |  |  |  |  |  |
|   | Use the following DNS server addresses:   |  |  |  |  |  |
| Install Uninstall Properties  | Preferred DNS server:   |  |  |  |  |  |
| Transmission Control Protocol/Internet Protocol. The default  | Alternate DNS server:   |  |  |  |  |  |
| wide area network protocol that provides communication<br>across diverse interconnected networks.                                       | Validate settings upon exit   |  |  |  |  |  |
| OK Cancel   | OK Cancel   |  |  |  |  |  |

#### Connect via MacBook

**Step 1:** Connect the TCP/IP port of the HDMI Matrix Switch/Splitter to the router with a UTP cable (as shown in the following figure), and connect the Switch/Splitter's power supply to an AC outlet.



**Step 2:** Connect the router's wi-fi on the MacBook. Then, modify the MacBooks's IP address to 192.168.0.xxx, so that it is in the same network segment as the HDMI Matrix Switch/Splitter. For example, if the Switch/Splitter's IP address is 192.168.0.100, the MacBooks's IP address can be changed to 192.168.0.12.

To change the IP address, select System Settings in the Apple dropdown menu. Click Network, and then Wi-Fi. Click Details, and then TCP/IP. From there, you will be able to manually change the MacBook's IP address.

### Logging In

Enter the HDMI Matrix Switch/Splitter's IP address into the PC or MacBook's web browser to access the Web GUI page.

| ter your Username and Password to in |   |
|--------------------------------------|---|
| ط Admin                              | • |
| Password                             |   |
| A English                            |   |

Select the language from the drop-down list to choose English or Simple Chinese. Select the username from the drop-down list and enter the password. The default passwords are:

| Username | Password |  |  |
|----------|----------|--|--|
| Admin    | admin    |  |  |
| User     | user     |  |  |

After entering the password, click the "Log In" button to access the Web GUI main page.

#### **Status Page**

The Status Page provides basic information about the product model, installed firmware version and network settings of the device.

| F_T•N° |         | 4x4 HDMI Matrix Switch w/ Video Wall  | Admin Log out Power on |  |  |
|--------|---------|---------------------------------------|------------------------|--|--|
| TRIP   |         | Status                                |                        |  |  |
| S      | itatus  | Model<br>B119-AX4-4K6-NW              |                        |  |  |
| 1      | nput    |                                       |                        |  |  |
| o      | utput   | Firmware Version<br>V1.10.39/V2.00.08 |                        |  |  |
| Vide   | :o Mode | Hostname<br>IP-module-11653           |                        |  |  |
| Ne     | etwork  | IP Address<br>192.1680.100            |                        |  |  |
| Sj     | ystem   | Subnet Mask 255 2550.0                |                        |  |  |
|        |         | Gateway<br>192.1680.1                 |                        |  |  |
|        |         | MAC Address<br>eccessoiness           |                        |  |  |
|        |         |                                       |                        |  |  |

#### **Input Page**

| E:T·N°     | 4x4 HDMI Matrix Switch | Admin Log out Power on |         |                               |  |
|------------|------------------------|------------------------|---------|-------------------------------|--|
|            | Input Setting          |                        |         |                               |  |
| Status     | Inputs                 | Active                 | Name    | EDID                          |  |
| Input      | HDMI 1                 |                        | Input1  | 4K2K60 444,Stereo Audio 2.0 💌 |  |
| Output     | HDMI 2                 |                        | Input2  | 4K2K60 444,Stereo Audio 2.0 💌 |  |
| Video Mode | HDMI 3                 |                        | Input3  | 4K2K60 444,Stereo Audio 2.0 💌 |  |
| Network    | HDMI 4                 |                        | Input4  | 4K2K60 444,Stereo Audio 2.0 💌 |  |
| System     | Load EDID to user m    | emory                  |         |                               |  |
|            | Select EDID File:      |                        | Browse  |                               |  |
|            | Select Destination:    |                        | Define1 | ▼ Upload                      |  |
|            | Download EDID to y     | our computer           |         |                               |  |
|            | Select EDID File:      | HDN                    | IIIN1   | Download                      |  |

You can do the following operations on the Input page:

- Inputs: Input channel of the device.
- Active: Indicates whether the channel is connected to a signal source. When the input port is connected to the signal, it shows green. Otherwise, it shows gray.
- **Name:** You can modify the input channel's name by entering the corresponding name (max length: 32 characters) in the input box.
- EDID: You can set the current channel's EDID. Click the drop-down list to select.
- Load EDID to User Memory: Set EDID for the User. Click the "Browse" button, then select the bin file. If you select the wrong EDID file, there will be a prompt, as shown in the following figure:



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



• **Download EDID to Your Computer:** Click "Select EDID File" in the drop-down menu to select the corresponding input channel. Then click "Download" to download the corresponding EDID file.

#### **Output Page**

| F:T•N°     | 4x4 HDMI Matrix Switch w/ Video Wali |         |                   |             |               |                          | Admin Log out | Power on |
|------------|--------------------------------------|---------|-------------------|-------------|---------------|--------------------------|---------------|----------|
|            | Output Setti                         | ing     |                   |             |               |                          |               |          |
| Status     | Outputs Cable                        | Name    | Output Resolution | Color Space | HDCP          | H mirror V mirror Stream | n             |          |
| Input      | HDMI 1                               | Output1 | 3840x2160p60Hz •  | RGB 4:4:4 🔹 | Follow sink 🔻 | 88                       | )             |          |
| Output     | HDMI 2                               | Output2 | 3840x2160p60Hz 👻  | RGB 4:4:4 🔹 | Follow sink 💌 | 88                       | 0             |          |
| Video Mode | HDMI 3                               | Output3 | 3840x2160p60Hz •  | RGB 4:4:4 🔹 | Follow sink 🔻 | 88                       | )             |          |
| Network    | HDMI 4                               | Output4 | 3840x2160p60Hz 👻  | RGB 4:4:4 👻 | Follow sink 💌 | 88                       | 0             |          |
| System     |                                      |         |                   |             |               |                          |               |          |

You can do the following operations on the Output page:

- **Outputs:** Output channel of the device.
- **Cable:** It indicates the connection status of output ports. When the output port is connected to the display, it shows green. Otherwise, it shows gray.
- **Name:** You can modify the output channel's name by entering the corresponding name (max length: 32 characters) in the input box.
- **Output Resolution:** Set the current output resolution mode. Click the dropdown list to select other resolutions.
- Color Space: Set the color space of the output signal.
- **HDCP:** Set the HDCP version that the current output port supports.
- H Mirror: Turn on/off the horizontal mirroring of the output signal.
- **V Mirror:** Turn on/off the vertical mirroring of the output signal.
- **Stream:** Turn on/off the signal output stream of the output port. *Note:* User cannot set each output resolution separately in video wall mode.

### Video Mode Page

| F'T.N°                                     | 4x4 HDMI Matrix Switch w             | / Video Wall   |                   |               | 🛔 Admin 📔 Log out |
|--|--------------------------------------|----------------|-------------------|---------------|-------------------|
|  | Video Mode                           |                |                   |               |                   |
| Statue                                     | Matrix                               |                |                   |               |                   |
| Status                                     | Matrix                               |                |                   |               |                   |
| Input                                      | Video Wall                           |                |                   |               |                   |
| Output                                     | 2×2 1×2                              | 1×2-2 2×1      | 2×1-2 3×1 4×      | 1 [] [] []    |                   |
| Video Mode                                 | Matrix Adjustment                    |                |                   |               |                   |
| Network<br>System                          | Orport                               | input)         | Overan?<br>Imput! |               |                   |
|  | Ostpaci                              | Input          | Durport           |               |                   |
| FATON <sup>®</sup><br>Tripp lite<br>Series | Input1 Input2 In<br>Bezel Adjustment | iput3 Input4 P | attern            |               |                   |
| Status                                     | Horizontal Bezel                     |                |                   | - 0 +         |                   |
| Input                                      | Vertical Bezel                       |                |                   | - 0 +         |                   |
| Output                                     | Output Resolution                    |                | 1920x1080p60Hz    | •             |                   |
| Video Mode                                 | Presets Name                         | Presets Set    | Presets Save      | Presets Clear |                   |
| Network                                    | Preset1                              | Set            | Save              | Clear         |                   |
| System                                     | Preset2                              | Set            | Save              | Clear         |                   |
|  | Preset3                              | Set            | Save              | Clear         |                   |
|  | Preset4                              | Set            | Save              | Clear         |                   |
|  | PresetS                              | Set            | Save              | Clear         |                   |
|  | Preset6                              | Set            | Save              | Clear         |                   |
|  | Preset7                              | Set            | Save              | Clear         |                   |
|  | Preset8                              | Set            | Save              | Clear         |                   |

You can do the following operations on the Video page:

- Matrix: Click to select the Matrix mode.
- Video Wall: Click to select any video wall mode.
- Matrix/Video Wall Adjustment: Display the input and output information.
- Input Source: Two methods to select the input source:
  - o **Method 1:** Drag Input 1/2/3/4/Pattern to any window of Matrix/Video Wall Adjustment.
  - o **Method 2:** Select any window in Matrix/Video Wall Adjustment, then click Input 1/2/3/4/ Pattern in Input Source, or click ◀▶ to select the last or next signal source.
- **Bezel Adjustment:** Click +/- to adjust the corresponding Horizontal/Vertical Bezel (up to 10 levels).
- **Output Resolution:** Set the resolution of all current output ports. Click the dropdown list to select.

• **Preset:** Set, save and clear the preset scenario as required, supporting up to 8 presets. You can modify the name of the preset by entering the corresponding name (max length: 32 characters) in the input box.

#### **Network Page**

| F:T·N°     | 4x4 HDMI Matrix Switch w/ Video Wall |               | Admin Log out Power on |
|------------|--------------------------------------|---------------|------------------------|
|            | IP Setting                           |               |                        |
| Status     | IP Mode                              | Static 💌      |                        |
| Input      |                                      |               |                        |
| Output     | IP Address                           | 192.168.0.100 |                        |
| Video Mode | Gateway                              | 192.168.0.1   |                        |
| Network    |                                      |               |                        |
| System     | Subnet                               | 255.255.0.0   |                        |
|            |                                      |               |                        |
|            | Telnet Port                          | 23            |                        |
|            |                                      |               |                        |
|            | TCP Port                             | 8000          |                        |
|            | Web Login Setting                    |               |                        |
|            |                                      |               |                        |

You can do the following operations on the Network page:

#### **Modify Network Setting**

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

| FAT•N°<br>TRIPP LITE  | TCP Port                  | 8000                   |
|-----------------------|---------------------------|------------------------|
| Status                | Web Login Setting         |                        |
| Input                 | Username                  | Admin •                |
| Output                | Old Password              | Enter Old Password     |
| Video Mode<br>Network | New Password              | Enter New Password     |
| System                | Confirm Password          | Enter Confirm Password |
|                       | Product Model Setting     |                        |
|                       | Product Model             | B119-4X4-4K6-VW        |
|                       | Set Network Defaults Save |                        |

### **Modify User Password**

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



Note: Input rules for changing passwords:

- New password can't be empty.
- New Password can't be the same as Old Password.
- New Password and Confirm Password must be the same.

### Set the Default Network

Click the "Set Network Defaults" button. You will see a prompt, as shown in the following figure:



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

| FAT • N°<br>TRIPP LITE<br>SERIES | TCP Port                  |       |
|----------------------------------|---------------------------|-------|
| Status                           | Web Login Setting         |       |
| Input                            | Username                  | Admin |
| Output<br>Video Mode             | Old Password              |       |
| Network                          | New Password              |       |
| System                           | Confirm Password          |       |
|                                  | Product Model Setting     |       |
|                                  | Product Model             |       |
|                                  | Set Network Defaults Save |       |

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

### **System Page**

| F:T·N                 | 4x4 HDMI Matrix Switch w/ Video Wall |                 | Admin   Log out Power on |
|-----------------------|--------------------------------------|-----------------|--------------------------|
|                       | System Setting                       |                 |                          |
| Status                | Panel Lock                           | ۲               |                          |
| Input                 | Beep                                 |                 |                          |
| Output                | Pattern                              | Black screen 👻  |                          |
| Video Mode<br>Network | Serial Baud Rate                     | 115200 <b>*</b> |                          |
| System                | System Utilities                     |                 |                          |
|                       | Firmware Update Browse               | Update          |                          |
|                       | Factory Reset                        | Reset           |                          |
|                       | Reboot                               | Reboot          |                          |
|                       |                                      |                 |                          |

You can do the following operations on the System page:

- **Panel Lock:** Click to lock/unlock panel buttons. "ON" indicates that panel buttons are unavailable. "OFF" indicates panel buttons are available.
- Beep: Click to turn the beep on or off.
- Pattern: Click to select one of 6 patterns.
- Serial Baud Rate: Click the value to set the Serial Baud Rate.
- **Firmware Update:** Click "Browse" to select the update file, then click "Update" to complete firmware update.
- · Factory Reset: You can reset the machine to factory defaults by clicking "Reset".
- **Reboot:** You can reboot the machine by clicking "Reboot".

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

The HDMI Matrix Switch/Splitter supports RS-232 command control. Connect its RS-232 port to a PC with a 3-pin Phoenix connector cable and an RS-232-to-USB cable. The connection method is as follows:



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

| ASCII Command  |                     |                        |              |  |
|--|---------------------|------------------------|--------------|--|
| Serial port protocol: Baud<br>rate: 115200 (default) | Data bits: 8        | Stop bits: 1           | Check bit: 0 |  |
| x - Parameter  | 1, y - Parameter 2, | z - Parameter 3, ! - [ | Delimiter    |  |

| Command<br>Code | Function Description   | Example       | Feedback  | Default<br>Setting       |  |  |
|-----------------|--|---------------|---|--------------------------|--|--|
| System Set      | System Setting   |               |   |                          |  |  |
| help!           | Lists all commands   | help!         |   |                          |  |  |
| r status!       | Get device current<br>status   | r status!     | get the unit all status:<br>power, beep, lock, in/<br>out connection, video/<br>audio crosspoint, EDID,<br>scaler, network status |                          |  |  |
| r type!         | Get device model   | r type!       | 4x4 HDMI seamless<br>matrix   |                          |  |  |
| r fw version!   | Get firmware version   | r fw version! | mcu fw version x.xx.xx  |                          |  |  |
| s power z!      | Power on/off the device, $z=0~1$ ( $z=0$ power off, $z=1$ power on)    | s power 1!    | power on<br>system initializing<br>initialization finished!<br>mcu fw version x.xx.xx   |                          |  |  |
| r power!        | Get current power state  | r power!      | power on/power off  |                          |  |  |
| s beep z!       | Enable/disable buzzer<br>function, z=0~1(z=0<br>beep off, z=1 beep on) | s beep 1!     | beep on/beep off  | beep on                  |  |  |
| r beep!         | Get buzzer state   | r beep!       | beep on/beep off  | beep on                  |  |  |
| s lock z!       | Lock/unlock front panel<br>button, z=0~1(z=0 lock<br>off,z=1 lock on)  | s lock 1!     | panel button lock on<br>panel button lock off   | panel button<br>lock off |  |  |
| r lock!         | Get panel button lock<br>state   | r lock!       | panel button lock on/<br>off  |                          |  |  |

| Command<br>Code       | Function Description  | Example            | Feedback   | Default<br>Setting |
|-----------------------|---|--------------------|--|--------------------|
| s reboot!             | Reboot the device   | s reboot!          | reboot<br>system initializing<br>initialization finished!<br>mcu fw version x.xx.xx                    |                    |
| s reset!              | Reset to factory<br>defaults  | s reset!           | reset to factory defaults<br>system initializing<br>initialization finished!<br>mcu fw version x.xx.xx |                    |
| s save<br>preset z!   | Save preset z scenarios<br>(z=1~8)  | s save preset 1!   | save to preset 1!  |                    |
| s recall<br>preset z! | Call saved preset z<br>scenarios (z=1~8)  | s recall preset 1! | recall from preset 1   |                    |
| s clear<br>preset z!  | Clear preset z scenarios<br>(z=1~8)   | s clear preset 1!  | clear preset 1!  |                    |
| r preset z!           | Get preset z<br>information (z=1~8)   | r preset 1!        | video/audio crosspoint   |                    |
| Output Set            | ting  |                    |  |                    |
| s in x av<br>out y!   | Set input x to output<br>y~x=1~4~ y=0~4(0=all)  | s in 1 av out 2!   | input 1 -> output 2  | ptp                |
| r av out y!           | Get output y signal<br>status y=0~4(0=all)  | r v out 0!         | input 1 -> output 1<br>input 2 -> output 2<br>   |                    |
|                       |   |                    | input 4 -> output 4  |                    |
| s output y<br>res x!  | Set output y resolution<br>(y=0~4, x=1~16)<br>y=0. output all y=1.<br>output 1<br>y=2. output 2<br>y=3. output 3<br>y=4. output 4<br>1. 4096x2160p60,<br>2. 4096x2160p50,<br>3. 3840x2160p50,<br>5. 3840x2160p50,<br>5. 3840x2160p30,<br>6. 1920x1080p50,<br>8. 1920x1080p50,<br>8. 1920x1080p50,<br>8. 1920x1080p50,<br>10. 1920x1200p60rb,<br>11.1360x768p60,<br>12.1280x800p60,<br>13.1280x720p60,<br>14.1280x720p50,<br>15.1024x768p60,<br>16. auto |                    |  |                    |

| Command<br>Code          | Function Description   | Example                  | Feedback                             | Default<br>Setting   |
|--------------------------|--|--------------------------|--------------------------------------|--|
| r output y<br>res!       | Get output y<br>resolution(y=0~4) y=0.<br>output all<br>y=1. output 1<br>y=2. output 2<br>y=3. output 3<br>y=4. output 4   | s output 1 csc 1!        | output 1 resolution:<br>3840x2160p60 |  |
| s output y<br>csc x!     | Set output y color<br>space (y=0~4, x=1~4)<br>y=0. output all y=1.<br>output 1<br>y=2. output 2<br>y=3. output 3<br>y=4. output 4 x=1.<br>rgb444 x=2. ycbcr444<br>x=3. ycbcr422 x=4.<br>ycbcr420 | s output 1 csc 1!        | output 1 csc: rgb444                 | rgb444   |
| r output y<br>csc!       | Get output y color<br>space status. (y=0~4)<br>y=0. output all y=1.<br>output 1<br>y=2. output 2<br>y=3. output 3<br>y=4. output 4   | r output 1 csc!          | output 1 csc: rgb444                 |  |
| s output y<br>hdcp x!    | Set output hdcp(y=0~4,<br>x=1~4) y=0. output all<br>y=1. output 1<br>y=2. output 2<br>y=3. output 3<br>y=4. output 4<br>x=1. hdcp 1.4<br>x=2. hdcp 2.2 x=3.<br>follow sink x=4. follow<br>source | s output 1 hdcp<br>1!    | output 1 hdcp:<br>hdcp 1.4           | hdcp1.4  |
| r output y<br>hdcp!      | Get output y hdcp<br>status.(y=0~4) y=0.<br>output all<br>y=1. output 1<br>y=2. output 2<br>y=3. output 3<br>y=4. output 4   | r output 1 hdcp!         | output 1 hdcp:<br>hdcp 1.4           |  |
| s output y<br>hmirror x! | Set output y h<br>mirror(y=0~4,x=0,1)<br>y=0. output all<br>y=1. output 1<br>y=2. output 2<br>y=3. output 2<br>y=4. output 4 x=0. h<br>mirror off x=1. h mirror<br>on                            | s output 1<br>hmirror 1! | output1 h mirror on                  | output 1 h<br>mirror off<br>output 2 h<br>mirror off<br>output 3 h<br>mirror off<br>output 4 h<br>mirror off |

| Command<br>Code          | Function Description  | Example                  | Feedback   | Default<br>Setting   |
|--------------------------|---|--------------------------|--|--|
| s output y<br>vmirror x! | set output y v<br>mirror(y=0~4,x=0,1)<br>y=0. output all<br>y=1. output 1<br>y=2. output 2<br>y=3. output 2<br>y=4. output 4 x=0. v<br>mirror off x=1. v mirror<br>on                       | s output 1<br>vmirror 0! | output1 v mirror off   | output 1 v<br>mirror off<br>output 2 v<br>mirror off<br>output 3 v<br>mirror off<br>output 4 v<br>mirror off |
| r output y<br>mirror!    | Get output y mirror<br>status(y=0~4) y=0.<br>output all<br>y=1. output 1<br>y=2. output 2<br>y=3. output 3<br>y=4. output 4   | r output 0<br>mirror!    | output 1 h mirror on, v<br>mirror off<br>output 2 h mirror on, v<br>mirror off<br>output 3 h mirror on, v<br>mirror off<br>output 4 h mirror on, v<br>mirror off |  |
| s output y<br>stream x!  | Set output y stream<br>enable/disable (y=0~4,<br>x=0~1)<br>y=0. output all y=1.<br>output 1<br>y=2. output 2<br>y=3. output 3<br>y=4. output 4<br>x=0. stream disable<br>x=1. stream enable | s output 1<br>stream 1!  | output 1 stream:<br>enable   | enable   |
| r output y<br>stream!    | Get output y stream<br>status. (y=0~4)<br>y=0. output all y=1.<br>output 1<br>y=2. output 2<br>y=3. output 3<br>y=4. output 4   | r output 1<br>stream!    | output 1 stream:<br>enable   |  |
| s output<br>bg x!        | Set output no signal<br>background display<br>mode (x=1~6)<br>x=1. black screen x=2.<br>blue screen x=3. color<br>bar x=4. gray scale x=5.<br>cross<br>x=6. cross hatch                     | s output bg 1!           | output background:<br>black screen   | black screen   |
| r output bg!             | Get output no signal<br>background display<br>mode  | r output bg!             | output background:<br>black screen   |  |

| Command<br>Code        | Function Description  | Example                | Feedback  | Default<br>Setting                 |
|------------------------|---|------------------------|---|------------------------------------|
| <b>EDID Settin</b>     | g   |                        |   |                                    |
| s edid in x<br>from z! | Set hdmi input x edid<br>mode (x=0~4,z=1~18)<br>x=0. all input x=1.   | s edid in 1 from<br>1! | input 2 edid:1080p,<br>stereo audio 2.0   | 4k2k60_444,<br>stereo audio<br>2.0 |
| r edid in x!           | input1 x=2.<br>input2 x=3.<br>input3 x=4.<br>input4 z=1.<br>4k2k60_444,stereo<br>audio 2.0 z=2.<br>4k2k60_444,dolby/dts<br>5.1 z=3. 4k2k60_444,hd<br>audio 7.1 z=4.<br>4k2k30_444,stereo<br>audio 2.0 z=5.<br>4k2k30_444,dolby/dts<br>5.1 z=6.<br>4k2k30_444,hd audio<br>7.1 z=7. 1080p,stereo<br>audio 2.0 z=8.<br>1080p,hd audio 7.1<br>z=9.<br>1080p,hd audio 7.1<br>z=10.<br>1920x1200, stereo<br>audio 2.0 z=11.<br>1360x768, stereo audio<br>2.0 z=12.<br>1024x768, stereo audio<br>2.0 z=13.<br>user define1 z=14.<br>user define1 z=14.<br>user define1 z=15.<br>copy from hdmi output<br>1 z=16.<br>copy from hdmi output<br>3 z=18.<br>copy from hdmi output<br>4<br>Get input x edid | s edid in 0 from<br>1! | all inputs edid:1080p,<br>stereo audio 2.0  |                                    |
|                        | mode(x=0~4) x=0. all<br>input<br>x=1. input1 x=2. input2<br>x=3. input3 x=4. input4   |                        | 4k2k60_444, stereo<br>audio 2.0<br>input 2 edid:<br>4k2k60_444, stereo<br>audio 2.0<br>input 3 edid:<br>4k2k60_444, stereo<br>audio 2.0<br>input 4 edid:<br>4k2k60_444,<br>stereo audio 2.0 |                                    |

| Command<br>Code           | Function Description   | Example                  | Feedback   | Default<br>Setting                        |
|---------------------------|--|--------------------------|--|---|
| Video Wall                | Setting  |                          |  |   |
| s tw mode<br>x!           | Set tv wall display<br>mode(x=1~10) x=1. 2x2<br>mode<br>x=2. 2x1 mode x=3.<br>2x1-2 mode x=4. 1x2<br>mode x=5. 1x2-2 mode<br>x=6. 3x1 mode x=7. 4x1<br>mode x=8. 1x3 mode<br>x=9. 1x4 mode x=10.<br>matrix mode  | s tw mode 1!             | tv wall mode: 2x2  | tv wall<br>mode: 2x2                      |
| r tw mode!                | Get tv wall display<br>mode  | r tw mode!               | tv wall mode: 2x2  |   |
| s tw h bezel<br>x!        | set tv wall horizontal<br>bezel (x=0~10,+,-)   | s tw h bezel 0!          | tv wall horizontal bezel:<br>0   | tv wall<br>horizontal<br>bezel: 0         |
| r tw h bezel!             | Get tv wall row bezel  | r tw h bezel!            | tv wall horizontal bezel:<br>0   |   |
| s tw v bezel<br>x!        | Set tv wall vertical bezel<br>(x=0~10,+,-)   | s tw v bezel 0!          | tv wall vertical bezel: 0  | tv wall<br>vertical<br>bezel: 0           |
| r tw v bezel!             | Get tv wall vertical bezel   | r tw v bezel!            | tv wall vertical bezel: 0  |   |
| s tw group y<br>i nput x! | Set tv wall group y<br>display which source<br>input(y= $0$ ~4, x=1~4)<br>y=0. tv wall group all<br>y=1. tv wall group 1 y=2.<br>tv wall group 2 y=3. tv<br>wall group 3 y=4. tv wall<br>group 4<br>x=1. hdmi input 1 x=2.<br>hdmi input 2 x=3.<br>hdmi input 3 x=4. hdmi<br>input 4 | s tw group 1<br>input 1! | tv wall group 1 input:<br>hdmi input 1   | tv wall group<br>1 input:<br>hdmi input 1 |
| r tw group y<br>source!   | Get tv wall group y<br>display which source<br>input(y=0~4)<br>y=0. tv wall group all<br>y=1. tv wall group 1 y=2.<br>tv wall group 2 y=3. tv<br>wall group 3 y=4. tv wall<br>group 4  | r tw group 0<br>source!  | tv wall group 1 input:<br>hdmi input 1<br>tv wall group 2 input:<br>hdmi input 2<br>tv wall group 3 input:<br>hdmi input 3<br>tv wall group 4 input:<br>hdmi input 4 |   |

| Command                           |   |                             |  | Default          |
|-----------------------------------|---|-----------------------------|--|------------------|
| Code                              | Function Description  | Example                     | Feedback   | Setting          |
| s tw res x!                       | Set tv wall resolution<br>(x=1~15) 1.<br>4096x2160p60,<br>2. 4096x2160p50,<br>3. 3840x2160p50,<br>5. 3840x2160p50,<br>5. 3840x2160p30,<br>6. 1920x1080p50,<br>8. 1920x1080p50,<br>8. 1920x1080i50,<br>10. 1920x1200p60rb,<br>11.1360x768p60,<br>13.1280x720p60,<br>14.1280x720p50,<br>15.1024x768p60, | s tw res 3!                 | tv wall resolution:<br>3840x2160p60  | 3840x2160<br>p60 |
| r tw res!                         | Get tv wall resolution  | r tw res!                   | tv wall resolution:<br>3840x2160p60  | 3840x2160<br>p60 |
| Network Se                        | etting  |                             |  |                  |
| r ipconfig!                       | Get the current ip<br>configuration   | r ipconfig !                | ip mode: static ip:<br>192.168.0.100<br>subnet mask:<br>255.255.255.0<br>gateway: 192.168.0.1<br>tcp/ip port=8000 telnet<br>port=23<br>mac address:<br>00:1c:91:03:80:01                           |                  |
| r mac addr!                       | Get network mac<br>address  | r mac addr!                 | mac address:<br>00:1c:91:03:80:01  |                  |
| s ip mode z!                      | Set network ip mode to<br>static ip or dhcp,z=0~1<br>(z=0 static, z=1 dhcp)   | s ip mode 0!                | set ip mode:static.<br>(please use "s net<br>reboot!" command<br>or repower device to<br>apply new config!)  |                  |
| r ip mode!                        | Get network ip mode   | r ip mode!                  | ip mode: static  |                  |
| s ip addr<br>xxx.xxx.xxx.<br>xxx! | Set network ip address  | s ip addr<br>192.168.0.100! | set ip address:<br>192.168.0.100<br>(please use "s net<br>reboot!" command<br>or repower device to<br>apply new config!) dhcp<br>on, device can't config<br>static address, set dhcp<br>off first. |                  |
| r ip addr!                        | Get network ip address  | r ip addr!                  | ip address:<br>192.168.0.100   |                  |

| Command<br>Code                   | Function Description                   | Example                    | Feedback   | Default<br>Setting |
|-----------------------------------|--|----------------------------|--|--------------------|
| s subnet<br>xxx.xxx.xxx.<br>xxx!  | Set network subnet<br>mask             | s subnet<br>255.255.255.0! | set subnet mask:<br>255.255.255.0<br>(please use "s net<br>reboot!" command<br>or repower device to<br>apply new config!) dhcp<br>on, device can't config<br>subnet mask, set dhcp<br>off first. |                    |
| r subnet!                         | Get network subnet<br>mask             | r subnet!                  | subnet mask:<br>255.255.255.0  |                    |
| s gateway<br>xxx.xxx.xxx.<br>xxx! | Set network gateway                    | s gateway<br>192.168.0.1!  | set gateway:<br>192.168.0.1<br>(please use "s net<br>reboot!" command<br>or repower device to<br>apply new config!) dhcp<br>on, device can't config<br>gateway, set dhcp off<br>first.           |                    |
| r gateway!                        | Get network gateway                    | r gateway!                 | gateway:192.168.0.1  |                    |
| s tcp/ip<br>port x!               | Set network tcp/ip port<br>(x=1~65535) | s tcp/ip port<br>8000!     | set tcp/ip port:8000   |                    |
| r tcp/ip<br>port!                 | Get network tcp/ip port                | r tcp/ip port!             | tcp/ip port:8000   |                    |
| s telnet<br>port x!               | Set network telnet<br>port(x=1~65535)  | s telnet port 23!          | set telnet port:23   |                    |
| r telnet<br>port!                 | Get network telnet port                | r telnet port!             | telnet port:23   |                    |
| s net<br>reboot!                  | Reboot network<br>modules              | s net reboot!              | network reboot<br>ip mode: static ip:<br>192.168.0.100<br>subnet mask:<br>255.255.255.0<br>gateway: 192.168.0.1<br>tcp/ip port=8000 telnet<br>port=10<br>mac address:<br>00:1c:91:03:80:01       |                    |

# 13. Application Example



### Warranty

#### **3-YEAR LIMITED WARRANTY**

We warrant our products to be free from defects in materials and workmanship for a period of three (3) years from the date of initial purchase. Our obligation under this warranty is limited to repairing or replacing (at its sole option) any such defective products. Visit Tripplite.Eaton.com/support/product-returns before sending any equipment back for repair. This warranty does not apply to equipment which has been damaged by accident, negligence or misapplication or has been altered or modified in any way.

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EXCEPT AS PROVIDED ABOVE, IN NO EVENT WILL WE BE LIABLE FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF THIS PRODUCT, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. Specifically, we are not liable for any costs, such as lost profits or revenue, loss of equipment, loss of use of equipment, loss of software, loss of data, costs of substitutes, claims by third parties, or otherwise.

#### FCC Notice, Class B

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- · Reorient or relocate the receiving antenna.
- · Increase the separation between the equipment and receiver.
- · Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- · Consult the dealer or an experienced radio/TV technician for help.

Any changes or modifications to this equipment not expressly approved by Eaton could void the user's authority to operate this equipment.

Eaton has a policy of continuous improvement. Specifications are subject to change without notice.



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