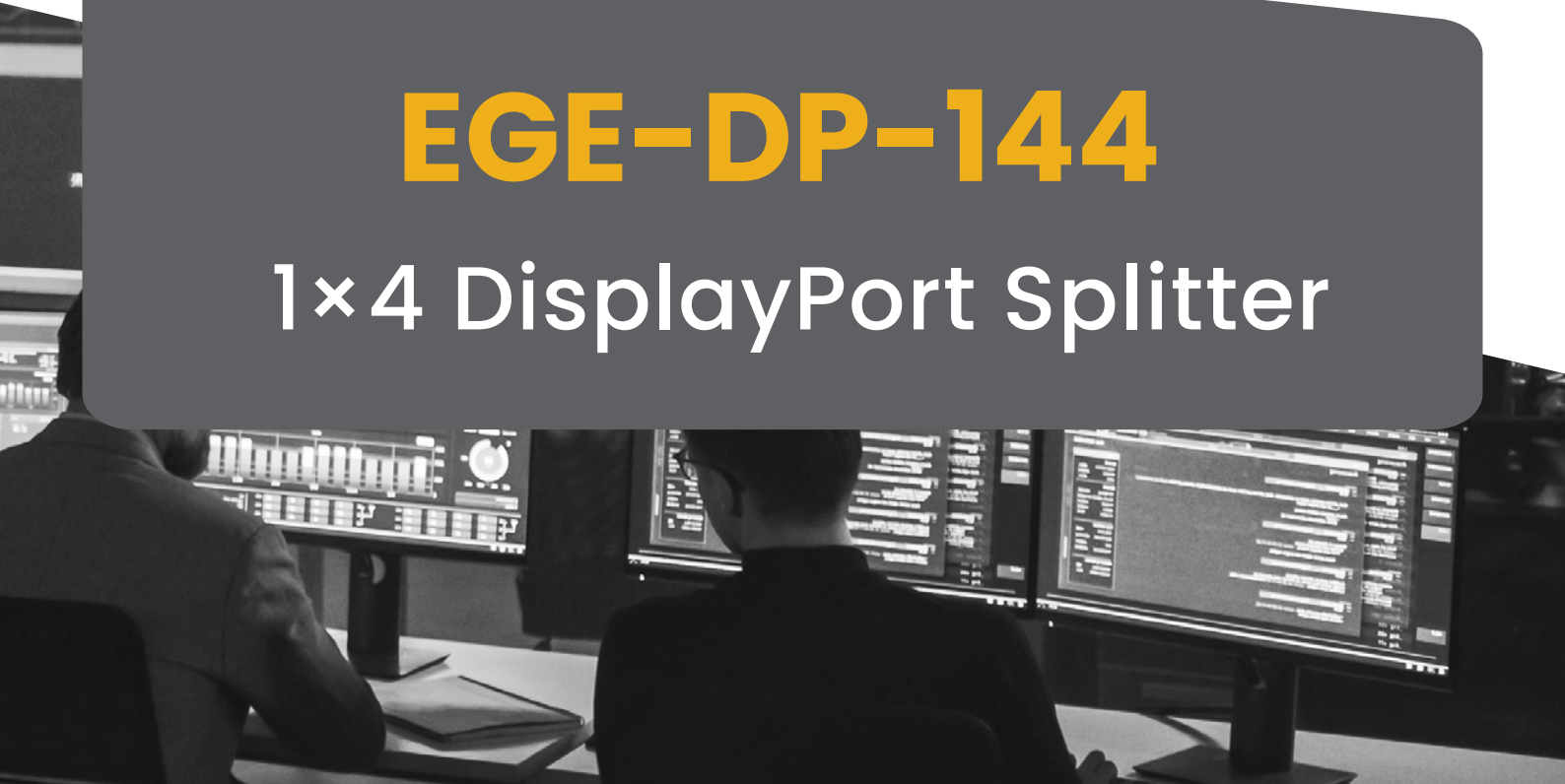


geratech<sup>®</sup>



**EGE-DP-144**

1x4 DisplayPort Splitter





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Version 1.0 December 2010

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**Safety Precautions**

- Please read all instructions before attempting to unpack or install or operate this equipment, and before connecting the power supply.
- Please keep the following in mind as you unpack and install this equipment:
- Always follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Never spill liquid of any kind on or into this product.
- Never push an object of any kind into this product through module openings or empty slots, as you may damage parts.
- Do not attach the power supply cabling to building surfaces.
- Do not allow anything to rest on the power cabling or allow it to be abused by persons walking on it.
- To protect the equipment from overheating, do not block the slots and openings in the module housing that provide ventilation.

**REVISION HISTORY**

<b>VERSION NO</b>	<b>DATE</b>	<b>SUMMARY OF CHANGE</b>
VR0	20110324	Preliminary Release

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## 1. INTRODUCTION

The DisplayPort (DP) 1 by 4 splitter allows single DP source to be display on four DP input monitors simultaneously. It supports video resolution up to 2560 x 1600 and audio up to PCM 7.1 switch provides a fast switch between source and display and save EDID's reading sink time to allow image display properly. The DP 1 by 4 splitter is an ideal device for your DP source to multi display.

## 2. APPLICATIONS

- Multi DisplayPort monitor display
- Information sharing
- Advertising program

## 3. PACKAGE CONTENTS

- 1 by 4 DisplayPort Splitter
- Operation Manual
- 5V/3 Power Adaptor

## 4. SYSTEM REQUIREMENTS

- DisplayPort output source equipment.
- DisplayPort input monitors.

## 5. FEATURES

- Supports DisplayPort specification V1.1a
- Deep color video up to 12bit, resolution support up to 2560 x 1600
- Supports audio up to PCM 7.1(32-192kHz Fs sample rate)
- Supports pixel component formate with RGB; YCbCr 422; YCbCr 444
- Color sapce conversion between RGB and YCbCr color space
- Supports 1.62/2.7 Gbps data rate (Low/High bit rate)
- Supports flexible 1/2/4 lanes configurations; Full 10.8Gbps data ratesupport (4lanes at 2.7Gbps)

Supports EDID switch and setting

**\*Note:** This device supports only DisplayPort mode, it cannot connect DP to HDMI level shift convert.

**6. SPECIFICATIONS**

Frequency Bandwidth	10.8Gbps (4lanes at 2.7Gbps)
Audio Sampling Rate	192kHz
Input port	1 x Displayport
Output port	4 x DisplayPort
Power Supply	5V / 3A DC (US/EU standards, CE/FCC/UL certified)
ESD Protection	Human body model: ± 8kV (air-gap discharge) ± 4kV (contact discharge)
Dimensions (mm)	270(W) x 124.5(D) x 29(H)
Weight(g)	770
Chassis Material	Aluminum
Silkscreen Color	Black
Power Consumption	7W
Operating Temperature	0°C~40°C / 32°F ~ 104°F
Storage temperature	-20°C~60°C / -4°F ~ 140°F
Relative Humidity	20~90% RH (non-condensing)

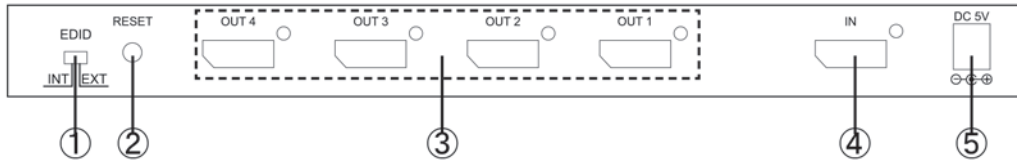
**7. HARDWARE DESCRIPTION**

**7.1 Front Panel**



- 1 POWER LED:** The LED will illuminate in green when power on and in red when in reset mode.

**7.2 Right Panel**



- 1 EDID switch INT/EXT:** This switch allows user to select the built-in EDID (INT) or the display's EDID (EXT).  
 Note: When the EDID switch is on EXT, the unit will detect OUTput 1's display EDID and record in the unit. If the first etected OUTput 1 is not connected, it will pass to the next which is OUTput 2..... and so on untill the display's EDID is recoreded in the unit.
- 2 RESET:** Press this button every time when switch the EDID allowing the device to update the EDID selection.
- 3 DP OUT 1 ~ 4:** These slots are where you connect the DP cable or DP to DP cable to your DP/DP input displayer for displaying a single source on two screens simultaneously.
- 4 DP IN:** This slot is where you connect the DP cable from the source equipment for signal sending.
- 5 DC 5V:** Plug the adaptor to the AC wallout for power supply to the device.

**8. STD Mode EDID Support Format**

Video Support	
VGA	•
720p	•
2560x1440	•
Audio Support	
PCM 2CH 48K	•
PCM 2CH 44.1K	•
PCM 2CH 32K	•



### 9. CONNECTION AND INSTALLATION



### 10. ACRONYMS

ACRONYM	COMPLETE TERM
EDID	Extended Display identification Data
DP	DisplayPort





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