1x4 HDMI Splitter with Dedicated CEC

P/N: AV-GM05Q3-S1

<u>Safety and Notice</u>

The **AV-GM05Q3-S1 1x4 HDMI Splitter with Dedicated CEC** has been tested for conformance to safety regulations and requirements, and has been certified for international use. However, like all electronic equipments, the AV-GM05Q3-S1 should be used with care. Please read and follow the safety instructions to protect yourself from possible injury and to minimize the risk of damage to the unit.

- Follow all instructions and warnings marked on this unit.

- Do not attempt to service this unit yourself, except where explained in this manual.

- Provide proper ventilation and air circulation and do not use near water.

- Keep objects that might damage the device and assure that the placement of this unit is on a stable surface.

- Use only the power adapter and power cords and connection cables designed for this unit.

- Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.

The **AV-GM05Q3-S1 1x4 HDMI Splitter with Dedicated CEC** provides the most cost effective and advanced HDMI 1.3 splitter solution on the market, by which the high definition video and high quality audio can be transmitted to 4 different locations without losing quality. With built-in USB firmware update mechanism, the compatibility among countless HDMI sources and receivers can be further guaranteed. With 12-bit deep color video and high definition audio support, AV-GM05Q3-S1 is suitable for high quality A/V broadcasting, digital signage and education applications! Furthermore, the embedded separate CEC paths provide independent CEC communication channels between CEC capable source and all individual receivers. This particular function makes the CEC control from source to different monitors feasible, which is not possible on typical HDMI splitters only with CEC pass through!

Features

- HDMI 1.3c and DVI 1.0 compliant
- HDCP 1.1 compliant
- Wide frequency range: 25MHz~225MHz
- Video bandwidth: 6.75Gbps
- Resolution up to 1080p or WUXGA (1920x1200)
- Automatic EDID learning
- Supports xvYCC, x.v.Color & Deep Color
- USB firmware update for expanding compatibility
- Supports Dolby Digital, DTS-HD and Dolby TrueHD audio
- Easy installation
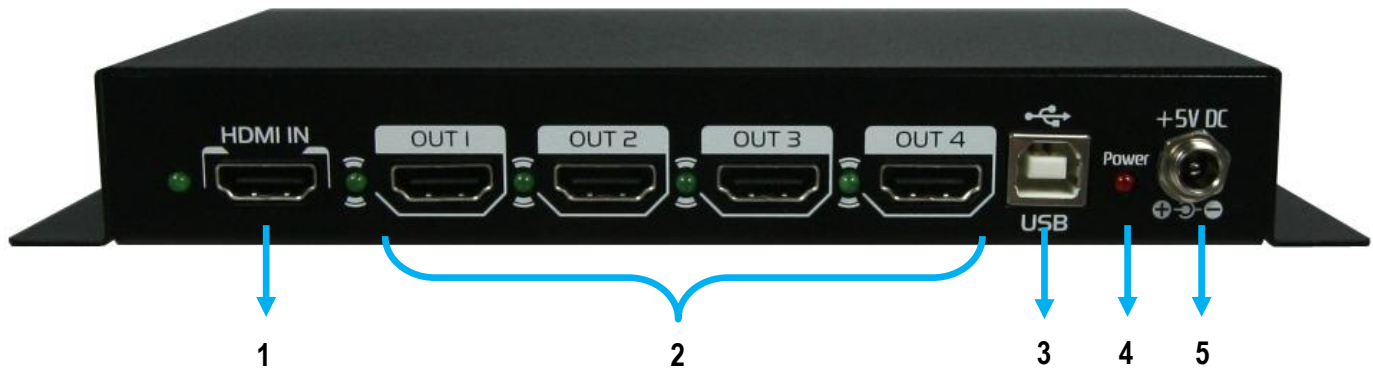- Wall-mount housing design for easy installation

Automatic EDID learning will detect all the connected HDMI equipped monitors and analyze all the content of EDID. The EDID with minimal resolution support will be the reference EDID for incoming HDMI source players.

Specifications & Package Contents

Model Name		AV-GM05Q3-S1
Technical		
Role of usage		1x4 Distribution Amplifier (Splitter)
HDMI compliance		High Speed HDMI-Deep Color 3D support
DVI compliance		DVI 1.0
HDCP compliance		Yes
Video bandwidth		Single-link 225MHz [6.75Gbps]
Video support		Up to WUXGA [1920x1200@60Hz] & FullHD [1080p@60Hz]
Audio support		DTS-HD Master Audio, Dolby TrueHD Dolby Digital, DTS, DVD-Audio, LPCM, SACD, MPCM
ESD protection		[1] Human body model — ±19kV [air-gap discharge] & ±12kV [contact discharge] [2] Core chipset — ±2kV
PCB stack-up		4-layer board [impedance control — differential 100Ω; single 50Ω]
Firmware update		Feasible via USB-port
CEC Channel		Bypass
Input TMDS signal		1.2 Volts [peak-to-peak]
Input DDC signal		5 Volts [peak-to-peak, TTL]
Input		1x HDMI [7.1ch audio & video]
Output		4x HDMI [7.1ch audio & video]
HDMI connector		Type A [19-pin female]
USB connector		Standard type-B [square shape]
Mechanical		**SP-5004E**
Housing		Metal enclosure
Dimensions (L x W x H)	Model	15 x 85 x 40mm[8.5" x 3.3" x 1.6"]
	Package	270 x 175 x 80mm [10.6" x 6.9" x 3.1"]
	Carton	450 x 370 x 300mm [1'6" x 1'3" x 11.8"]
Weight	Model	525 [1.2 lb]
	Package	985 [2.2 lb]
Fixedness		Wall-mount with screws
Power supply		5V 2A DC
Power consumption		10 Watts [max]
Operation temperature		0~40°C [32~104°F]
Storage temperature		-20~60°C [-4~140°F]
Relative humidity		20~90% RH [no condensation]
Package Contents		1x AV-GM05Q3-S1

	1x 5V power supply unit 1x User Manual

Rear Panel

1. **HDMI IN**: HDMI input source
2. **HDMI OUT**: distributed HDMI outputs
3. **USB IN**: for firmware update use only
4. **Power**: Red light means power is on
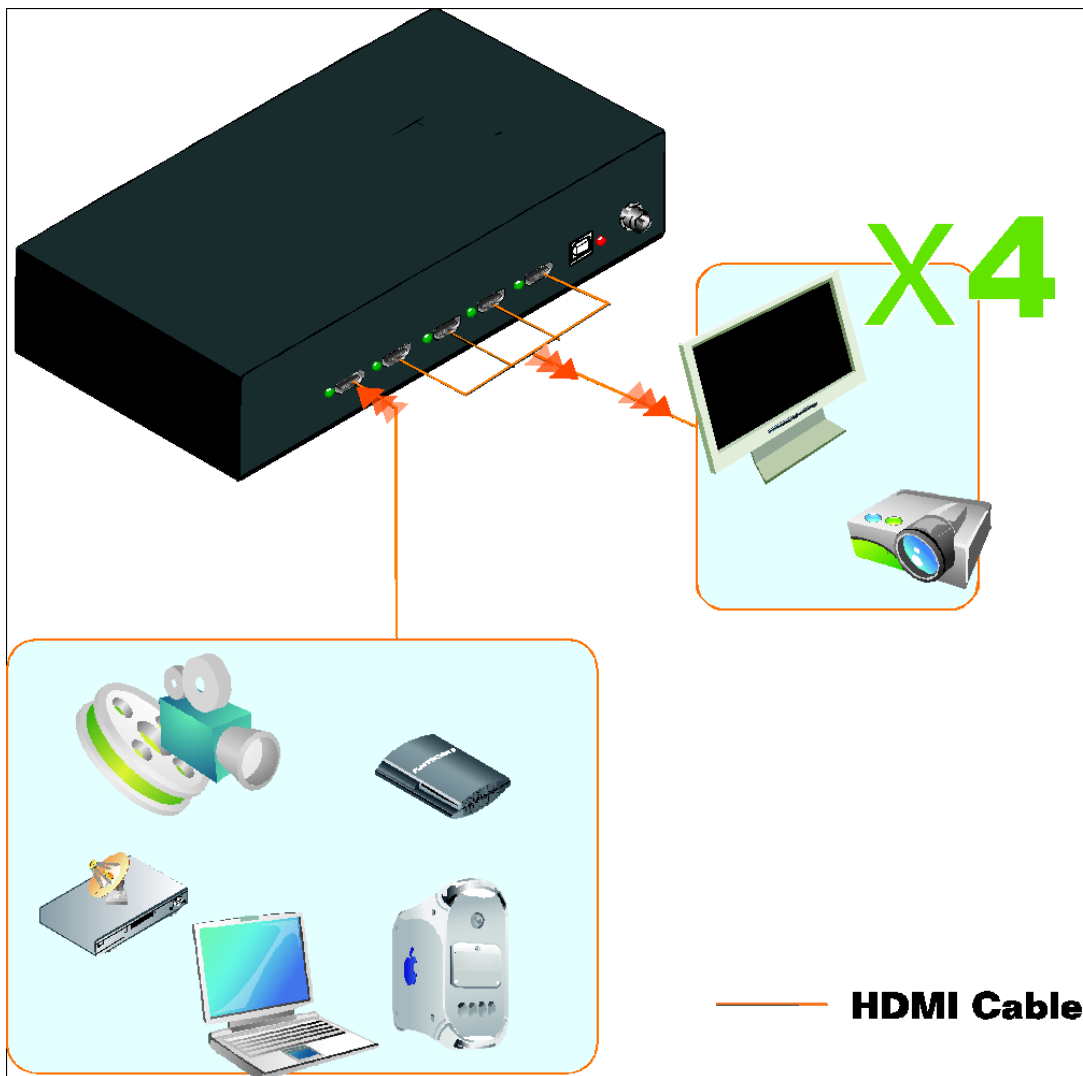5. **+5V DC** interlocking power jack: connect to 5V 2A interlocking power supply unit

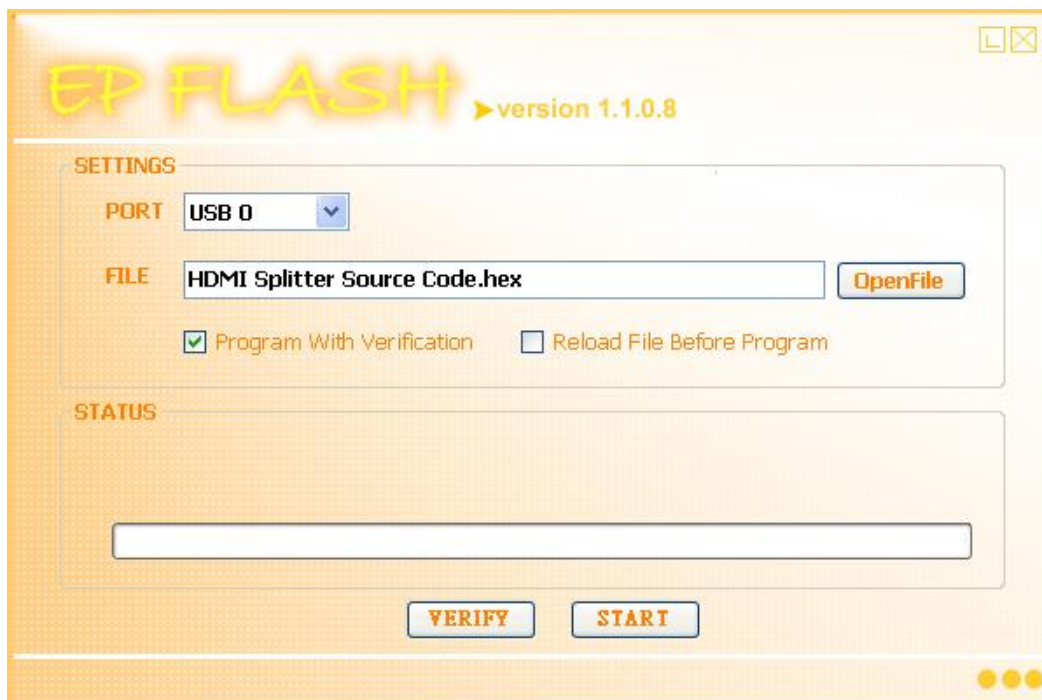*When the connected HDMI monitor is verified as HDMI and HDCP compliant, the corresponding green LED will blink.*

Broadcasts HDMI signal to 4 HDMI displays!

1. Switch off all devices, including monitors.

2. Connect to the receivers.

3. Connect an HDMI source (such as a Blu-ray Disc player) to the HDMI In.

4. Plug in 5V DC power supply unit.

5. Power on the HDMI monitors.

6. Power on the HDMI source.

X4

HDMI Cable

1. While connecting a new monitor to the splitter, experiencing a short period of time no display may be expected. Automatic EDID learning will analyze the newly connected monitor to see if the EDID for the HDMI input is necessary to update!

2. For long range high definition HDMI transmission applications, please adopt CAT5/6 cable based HDMI extenders.

3. For firmware update through USB, users MUST first turn off the power, plug USB cable connected to your PC, and then power up the module! In this setup, the power LED indicator will NOT blink, and this is normal! Execute the attached or download EPFlash.exe, and the following window will pop up. Click on "OpenFile" button to direct to the new firmware HEX file, and keep PORT at USB 0! Meantime, keep "Program With Verification" selected, and then click on "START" button on the bottom of the window! Wait for seconds until the update process is completed! After firmware update is successfully accomplished, please unplug USB cable and power off the splitter!

The SELLER warrants the **AV-GM05Q3-S1 1x4 HDMI Splitter with Dedicated CEC** to be free from defects in the material and workmanship for 3 years from the date of purchase from the SELLER or an authorized dealer. Should this product fail to be in good working order within 3 years warranty period, The SELLER, at its option, repair or replace the unit, provided that the unit has not been subjected to accident, disaster, abuse or any unauthorized modifications including static discharge and power surges. This warranty is offered by the SELLER for its BUYER with direct transaction only. This warranty is void if the warranty seal on the metal housing is broken.

Unit 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 90 days from the day of reshipment to the BUYER. If the unit is delivered by mail, customers agree to insure the unit or assume the risk of loss or damage in transit. Under no circumstances will a unit be accepted without a return authorization number.

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

Proof of sale may be required in order to claim warranty. Customers outside Taiwan are responsible for shipping charges to and from the SELLER. Cables and power adapters are limited to a 30 day warranty and must be free from any markings, scratches, and neatly coiled.

The content of this manual has been carefully checked and is believed to be accurate. However, The SELLER assumes no responsibility for any inaccuracies that may be contained in this manual. The SELLER will NOT be liable for direct, indirect, incidental, special, or consequential damages resulting from any defect or omission in this manual, even if advised of the possibility of such damages. Also, the technical information contained herein regarding the **AV-GM05Q3-S1** features and specifications is subject to change without further notice.

Support

For more info or tech support

http://www.siig.com/support

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