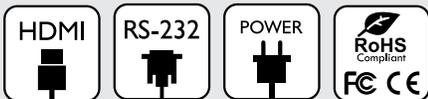




AV Connectivity, Distribution And Beyond...

**VIDEO WALLS VIDEO PROCESSORS
VIDEO MATRIX SWITCHES
EXTENDERS SPLITTERS WIRELESS
CABLES & ACCESSORIES**

1 X4 DisplayPort Splitter with PCM 7.1 and 2560x1600 support



Model #: SPLIT-DPDL-4A

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Product Application & Market Sectors



Corporate



House Of Worship



Military



Residential



Education



Industrial



Medical



Aviation



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SECTION I: GETTING STARTED

I.1 IMPORTANT SAFEGUARDS

Please read all of these instructions carefully before you use the device. Save this manual for future reference.

What the warranty does not cover

- Any product, on which the serial number has been defaced, modified or removed.
- Damage, deterioration or malfunction resulting from:
 - Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
 - Repair or attempted repair by anyone not authorized by us.
 - Any damage of the product due to shipment.
 - Removal or installation of the product.
 - External causes to the product, such as electric power fluctuation or failure.
 - Use of supplies or parts not meeting our specifications.
 - Normal wear and tear.
 - Any other causes which does not relate to a product defect.
- Removal, installation, and set-up service charges.

I.2 SAFETY INSTRUCTIONS

The SPLIT-DPDL-4A 4 Port DisplayPort Splitter has been tested for conformance to safety regulations and requirements, and has been certified for international use. However, like all electronic equipments, the SPLIT-DPDL-4A should be used with care. Read the following safety instructions to protect yourself from possible injury and to minimize the risk of damage to the unit.

- ⚠ Do not dismantle the housing or modify the module.
- ⚠ Dismantling the housing or modifying the module may result in electrical shock or burn.
- ⚠ Refer all servicing to qualified service personnel.
- ⚠ Do not attempt to service this product yourself as opening or removing housing may expose you to dangerous voltage or other hazards
- ⚠ Keep the module away from liquids.
- ⚠ Spillage into the housing may result in fire, electrical shock, or equipment damage. If an object or liquid falls or spills on to the housing, unplug the module immediately.
- ⚠ Have the module checked by a qualified service engineer before using it again.
- ⚠ Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.



1.3 REGULATORY NOTICES FEDERAL COMMUNICATIONS COMMISSION (FCC)

This equipment has been tested and found to comply with Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

Any changes or modifications made to this equipment may void the user's authority to operate this equipment.

Warning symbols	Description
	<p>ONLY USE THE PROVIDED POWER CABLE OR POWER ADAPTER SUPPLIED. DO NOT TAMPER WITH THE ELECTRICAL PARTS. THIS MAY RESULT IN ELECTRICAL SHOCK OR BURN.</p>
	<p>DO NOT TAMPER WITH THE UNIT. DOING SO WILL VOID THE WARRANTY AND CONTINUED USE OF THE PRODUCT.</p>
	<p>THE VIDEO BOARDS ARE VERY SENSITIVE TO STATIC. PLEASE ENSURE IF RACK MOUNTED OR INSTALLED ON A SURFACE, IT SHOULD BE IN A GROUNDED ENVIROMENT.</p>

	<p>⚠ WARNING</p>
	<p>Read & understand user guide before using this device.</p> <p>Failure to follow the proper installation instructions could result in damage to the product and preventing expected results.</p>

2. INTRODUCTION

The Avenview SPLIT-DPDL-4A 4 port splitter has the ability to duplicate a single DP (DisplayPort) source to any four DP screen /display. This unit also has two useful features – supports resolutions up to 2560x1600 and extends PCM 7.1 audio to the supported DP screens/displays attached.

Video Signals - up to 2560x1600

Audio Signals - PCM 7.1

The SPLIT-DPDL-4A includes one unit: 4 Port Splitter with one (1) DisplayPort Input that can and four (4) DisplayPort Outputs.

Features

- Support DisplayPort specification
- Deep Color video up to 12-bit, resolution support up to 2560x1600
- Supports audio up to PCM 7.1CH (32-192kHz Fs sample rate)
- Supports pixel component format with RGB; YCbCr 422; YCbCr 444
- Color space 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 rate support (4lanes at 2.7Gbps)
- Supports EDID switch and setting



2.1 PACKAGE CONTENTS

Before you start the installation of the HDMI Extender, please check the package contents.

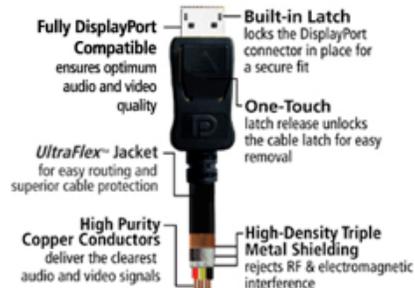
1	SPLIT-DPDL-4A	
2	POWER ADAPTER 5V/3A	
	USER'S MANUAL	

2.2 BEFORE INSTALLATION

- Put the product in a level and stable location. If the product falls, it may cause damage or malfunction to components within the casing.
- Do not place the product in temperatures under 0°C or over 50°C. High humidity may also cause the unit to malfunction.
- Use the DC power adapter with correct specifications supplied with the unit. If the improper power supply is used, this may result in malfunction of the unit and may cause fire.
- Do not twist or pull by force the ends of the Displayport cable. It can cause malfunction



2.3 CABLE SPECIFICATION



We highly recommend achieving best results with our SPLIT-DPDL-4A you acquire a high quality 26 or 24 AWG HDMI cable with the below specifications to maintain signal integrity and distances.

UltraAV DisplayPort to DisplayPort Version 1.1a Cable

The DisplayPort cable is fully compliant to DPCP (DisplayPort Content Protection) ensuring full compatibility and successful transmission of all audio and video content. The cable supports PC resolutions of up to 2560x1600 and all HDTV resolutions including 1080p. It also supports uncompressed audio and extended color depths of up to 12-bits per component ensuring flexibility to meet most display application needs.

Please note, features are subject to the capabilities of the computer and graphics solution

DisplayPort to DisplayPort Version 1.1a Cable

- Connect a DisplayPort Enabled Computer to a DisplayPort Monitor, TV or Projector
- Transfers Both Uncompressed Audio and High-Definition Video Signals
- 2.7 Gbps data rate x 4 lanes - Effective total throughput 8.64 Gbps
- Supports HDTV Resolutions up to 1080p and 2560x1600 for Computers
- DisplayPort Version 1.1a compliant - VESA Authorized Test Center (ATC) certified
- Locking DisplayPort Connectors Keep the Cable Securely Connected

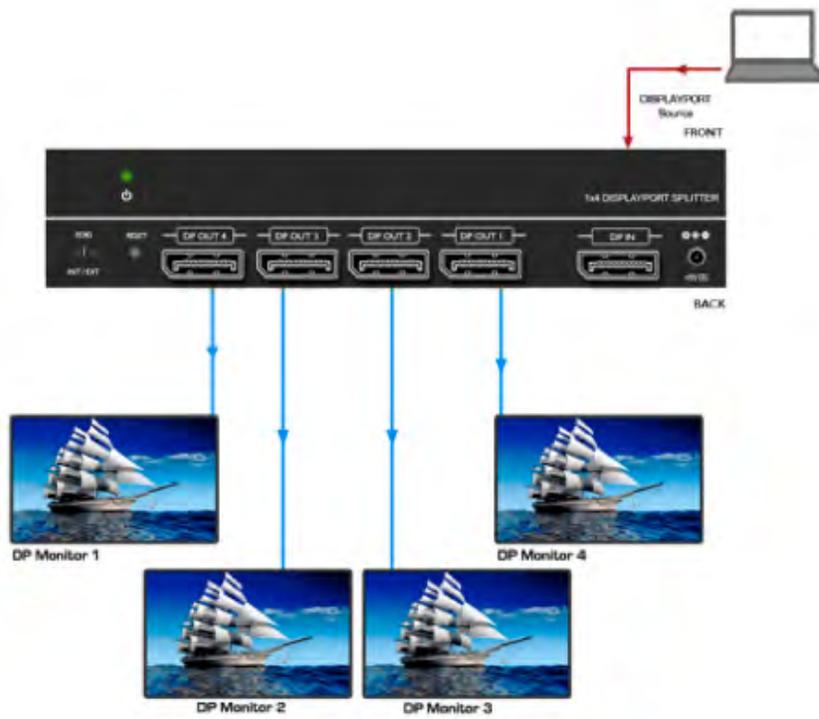


2.4 APPLICATION DIAGRAM

SPLIT-DPDL-4A

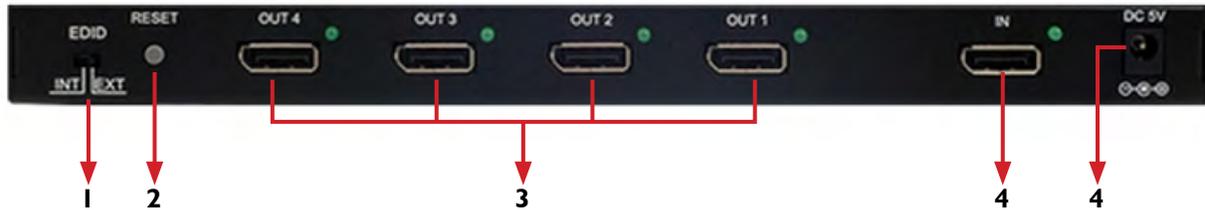
CABLE INDEX
Output ■
Input / Source ■

720P = 15m (50 feet) DP
2560X1600 = 10m (33 feet) DP
LAYOUT 1



2.5 PANEL DESCRIPTION

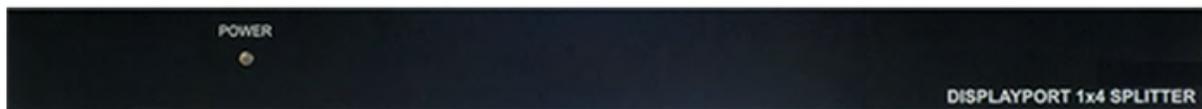
2.5.1 INPUT PANEL (SPLIT-DPDL-4A) Back Panel



1. EDID: 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 Detected Output 1 is Not connected, it will pass to the next which is Output 2..... and so on until the display's EDID is recorded 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: connect the DP cable to the output for displaying a single source on four screens simultaneously.
4. DP IN: Connect the DP cable from the source Equipment for signal sending.
5. Power Supply: 5V/3A only insert adaptor supplied.

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

2.5.2 INPUT PANEL (SPLIT-DPDL-4A) Front Panel



6. Power LED: The LED will illuminate in green when power on and in red when in reset mode.





3. INSTALLATION (SPLIT-DPDL-4A)

To setup Avenview SPLIT-DPDL-4A please follow these steps for connecting to a device:

1. Power off sources such as using DP graphic card, Laptop Mac etc.
2. Connect DisplayPort video Source to the INPUT- upto 2560x1600
3. Connect DisplayPort cable to DisplayPort Displays
4. Plug in 5V DC power cord to power jack of SC-HDM-HD42K
5. Power on DisplayPort Source and DisplayPort Display
6. When the Input is connected and turned on the corresponding LED will light on the output port

4. GENERAL TROUBLESHOOTING

PROBLEM	POSSIBLE SOLUTION
CHANGE TX	<ul style="list-style-type: none">• Check if connection to the source and the display are correct.• Ensure that display device supports DP and upto 2560x1600• Please use the supplied power supply-DC 5V 3A• Check LED light on Front Panel see (Section 3 Panel Description)• Check EDID Switch position see (Section 3 Panel Description)



SECTION 7: SPECIFICATIONS

5. SPECIFICATIONS

Item	Description
UNITS	SPLIT-DPDL-4A
UNIT DESCRIPTION	1X4 DP splitter with PCM audio support
DP COMPLIANCE	YES
DPCP	Compliant
VIDEO BANDWIDTH	10.8Gbps (4lanes at 2.7Gbps)
VIDEO SUPPORTED	2560X1600 DEEP COLOR 12BIT SEE ALSO Section 3
DISPLAY PORTCABLE	WQXGA: (2560X1600) ~ IN 5m(16ft) OUT 10m(33ft)
AUDIO SUPPORT	PCM 7.1(32-192kHz Fs sample rate)
ESD PROTECTION	Human body model — ±8kV (air-gap discharge) ±4kV (contact discharge)
INPUT	1 x DisplayPort Type A (20 pin female)
OUTPUT	2 x DisplayPort Type A (20 pin female)
LED	Front Panel Indicators
DIMENSIONS (L X W X H)	10.6" x 5" x 1.14" 270(W) x 124.5(D) x 29(H)
WEIGHT	1.5 lbs 680g
POWER SUPPLY	5V / 3A DC (US/EU standards, CE/FCC/UL certified)
POWER CONSUMPTION	7 Watt (max)

Environmental

OPERATING TEMPERATURE	32° ~ 104°F (0° to 40°C)
STORAGE TEMPERATURE	-4° ~ 140°F (-20° ~ 60°C)
RELATIVE HUMIDITY	20~90% RH (non-condensing)



Avenview Warranty Certificate

AVENVIEW CORP. ("Avenview") warrants Avenview-branded product(s) contained in the original packaging against defects in materials and workmanship when used normally in accordance with Avenview's enclosed manual guidelines for a period of THREE (3) YEARS from the date of original retail purchase - Warranty Period. Avenview's published guidelines include but are not limited to information contained in technical specifications, user manuals and service communications.

LABOR: During the Warranty Period of THREE (3) YEARS, Avenview will repair or replace the product(s) at no cost using new or used parts equivalent to novel performance and reliability if the product(s) is determined to have abide by Avenview's published guidelines. Cost of Labor applicable to product(s) after Warranty Period. For labor costs, please contact support@avenview.com.

PARTS: During the Warranty Period of THREE (3) YEARS, Avenview will supply new or rebuilt replacements in exchange for defective parts of the product(s) at no cost if the product(s) is determined to have abide by Avenview's published guidelines. Cost of Parts applicable to product(s) after Warranty Period. For part(s) costs, please contact support@avenview.com.

To obtain Warranty: (a) proof of purchase in the form of a bill of sale or receipted invoice reflecting that the registered product(s) is within warranty period must be presented to obtain warranty service; (b) product(s) must be registered at time of purchase. Failure to do so will result in applicable parts and labor charges. Returning product(s) must be shipped in Avenview's original packaging or in packaging pertaining equal degree of protection to Avenview's. Both Avenview and purchaser are responsible for freight charges and brokerages when shipping the product(s) to the receiver.

NOT COVERED BY THIS WARRANTY

This warranty does not apply to any non-Avenview branded product(s); non-registered Avenview product(s). This warranty does not apply: (a) to cosmetic damage, including but not limited to scratches, dents and broken cords; (b) to damage caused by use with another product; (c) to damage caused by accident, abuse, misuse, liquid contact, fire, earthquake or other external cause; (d) to damage caused by operating the Avenview product(s) outside Avenview's manuals or guidelines; (e) to damage caused by service performed by anyone who is not a representative of Avenview or an Avenview authorized personnel; (f) to defects caused by normal wear and tear or otherwise due to the normal aging of the Avenview product(s), or (g) if any serial number has been removed or defaced from the Avenview product(s).

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