![APANTAC]

2 Port DisplayPort SST DA/MST Hub USER MANUAL

DP-1x2-II
USER MANUAL v.1.3

Overview

DP-1x2-II is a high-speed 2 port DisplayPort splitter/distribution amplifier targeted for audio/video de-multiplexing and in distribution for applications such as notebook computers, docking stations, video hub, 4K2K TV/displays, daisy chainable monitors, digital signages and more.   It consists of one DisplayPort input and two dual mode output ports, that are configurable as either DisplayPort or HDMI.

Package Contents

- 1 x DP-1x2-II
- 1 x User manual
- 1 x Power adapter DC12V with lock
- 4 x Foot pads

Features

- Support DisplayPort 1.2a
- Support DisplayPort HDCP1.3
- Support Link rate HBR2/HBR/RBR.
- Support SST and MST mode.
- Compliant with DisplayPort 1, 2, or 4 lanes.

Specifications

| Function	DP-1x2-II
DisplayPort Input	1
DisplayPort Output	2
Compliance	DisplayPort 1.2a / HDCP 1.3
Max. Resolution	4Kx2K@60
Max. Data Rate	21.6Gbps
Link Rate	HBR2/HBR/RBR
DIP SWITCH	2pin: SST/MST Selection
RESET Key	TACT SW x 1
POWER Display	Green LED x 1
Operating Temperature	0° to 40°C
Storage Temperature	-20° to 60°C
Humidity	0 - 80% RH, Non-Condensing
Power Supply	12V/1A DC
Weight	310g
Dimensions (LxWxH)	156x83x25mm

FRONT VIEW
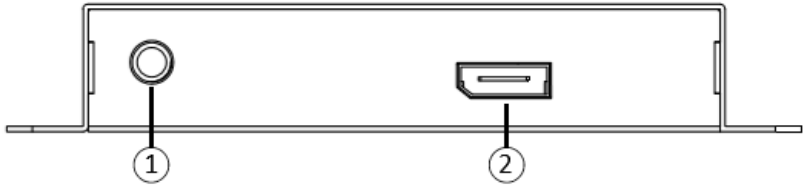
1. POWER JACK 12V DC
2. DisplayPort IN

REAR VIEW
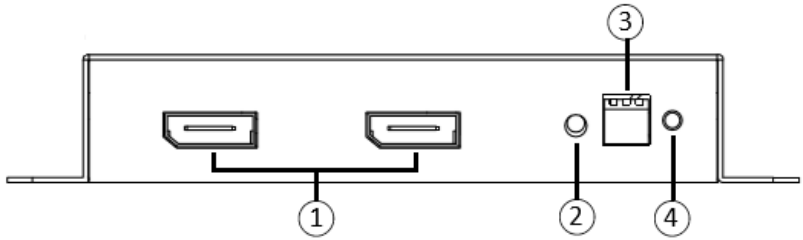
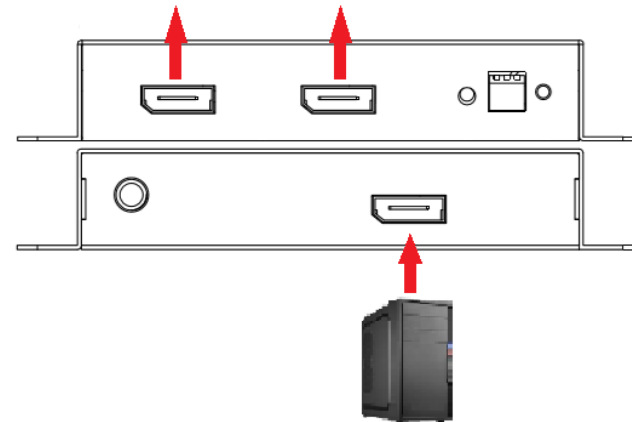1. DisplayPort OUT
2. Reset Key
3. MODE Key
4. POWER LED

DIP Switch Setting	
PIN1	MODE
OFF	MST
ON	SST

SST: All the output screen is the same single.
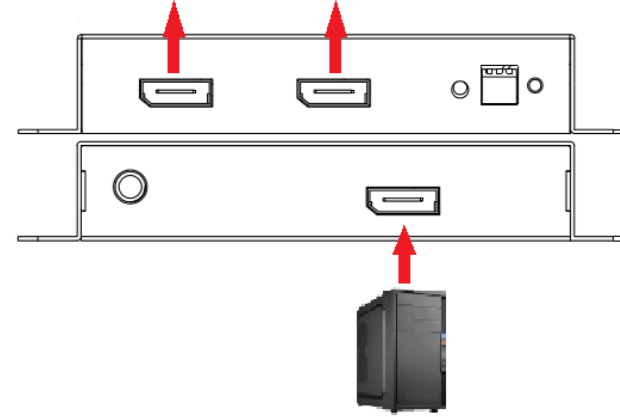
MST: Extend the single video source to all outputs.
※At MST mode the highest output resolution will decrease because the total bandwidth of 21.6 Gbps is shared among all monitors.

※When the mode select is ready, please restart the power or pressing Reset Key

Installation

1. Connect the DP cable with the PC and the <IN> port
2. Connect the DP cable with the monitor and the <OUT> ports
3. Connect the power cord and turn on the DP-1x2-II
4. Turn on the PC and monitor

EDID

DisplayPort splitters do not have capability of storing the EDID, so EDID is passed from the display to the source.   When there are two displays, it will use whichever the EDID is sent first, it will use that EDID.   If you remove the displays from the splitter, the splitter will keep the last EDID until power cycle.

Compatibility Tests

Due to the different interpretations of DisplayPort modes by different major graphics accelerator companies, it is important to provide detail compatibility test data as follows,

Test Equipment

| Graphics Card 1	GTX 1050Ti (NVIDIA, OS: WIN 10)
Graphics Card 2	Radeon RX560 (AMD: OS: WIN 7)
Display 1	Dell P2415Q
Display 2	ASUS PB287
Display 3	AOC U2849VF
Display 4	SAMSUNG LU28D590S
DisplayPort cable	LPC-1603 2m

1. SST connection diagram
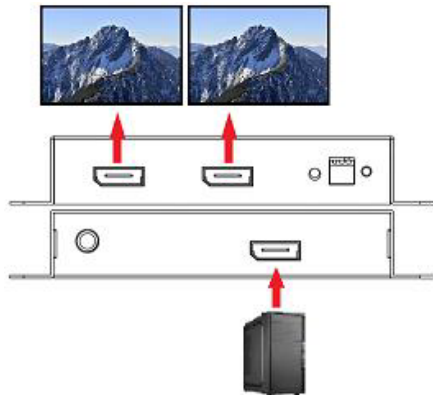
2. SST tests

DP-1x2-II (SST MODE)				

Resolutions/GFX card	OUTPUT1	OUTPUT2	OUTPUT1	OUTPUT2
GTX1050Ti	**P2415Q**	**PB287**	**PB287**	**P2415Q**
4K@60Hz	Pass	Pass	Pass	Pass
4K@30Hz	Pass	Pass	Pass	Pass
1920x1080P@60Hz	Pass	Pass	Pass	Pass
Radeon RX560	**LU28D590S**	**U2849VF**	**U2849VF**	**LU28D590S**
4K@60Hz	Pass	Pass	Pass	Pass
4K@30Hz	Pass	Pass	Pass	Pass
1920x1080P@60Hz	Pass	Pass	Pass	Pass

3. MST connection diagram
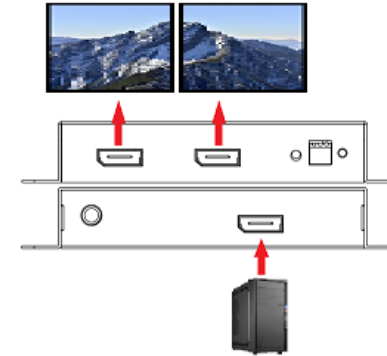
4. MST testing

DP-1x2-II (MST MODE)				
Resolutions/GFX card	**OUTPUT1**	**OUTPUT2**	**OUTPUT1**	**OUTPUT2**
GTX1050Ti	**P2415Q**	**PB287**	**U2849VF**	**LU28D590S**
	4K@30Hz	4K@30Hz	4K@30Hz	4K@30Hz
	LU28D590S	**P2415Q**	**PB287**	**U2849VF**
	4K@30Hz	4K@30Hz	4K@30Hz	4K@30Hz
Radeon RX560	**P2415Q**	**PB287**	**U2849VF**	**LU28D590S**
	No output	No output	No output	No output
Note: When Radeon RX560 in MST mode, there is no output				

5. DP++ testing

INPUT	Not supported
Output	Not supported