

1x4 / 1x8 4K HDMI 2.0 Splitter with HDCP 2.2

SP-0104-H2 | SP-0108-H2 v2



Quickstart Guide

Pure HDMI 1x4 or 1x8 splitter with support for full 4K resolutions and HDCP 2.2.

Note: The following information applies to version 2 of this product as identified by v2 after the model number on the product label.

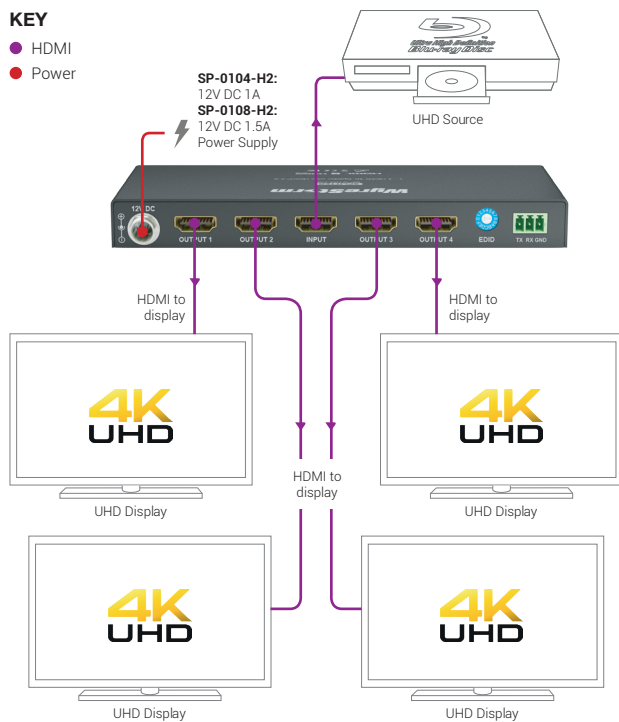
 WyreStorm recommends reading through this document in its entirety to become familiar with the product's features prior to starting the installation process.



In the Box

- 1x SP-0104-H2 or SP-0108-H2 Splitter
- SP-0104-H2: 1x 12V DC 1A Power Supply
- SP-0108-H2: 1x 12V DC 1.5A Power Supply
- 1x 3-pin Screw Down Phoenix Connector
- 2x Mounting Brackets
- 1x Quickstart Guide

Basic Wiring Diagram



IMPORTANT!

Disconnecting and connecting (hot plugging) HDMI or HDBaseT while devices are powered on may cause damage. WyreStorm recommends powering off devices before disconnecting these connections.

Additional Information

This Quickstart Guide provides the basic steps for the common uses of this product. Refer to the Installation Guide and other documentation on the product page for additional information.

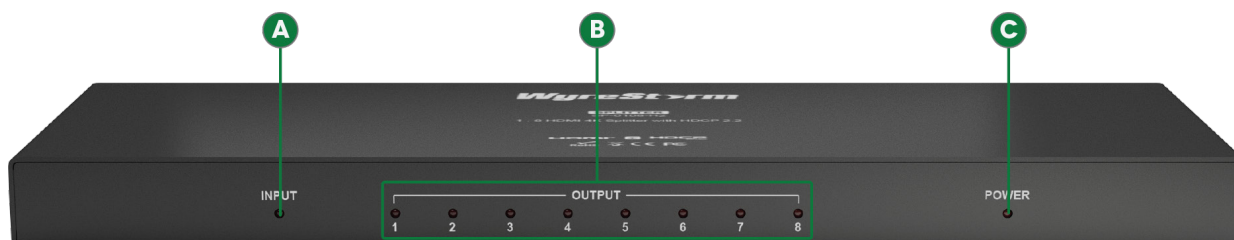
Before Beginning

- WyreStorm recommends visiting the product page before installing this product for updates to this Quickstart Guide as well as other information about the product.
- Verify that all items are included in the packaging per the **In the Box** list.

Installation

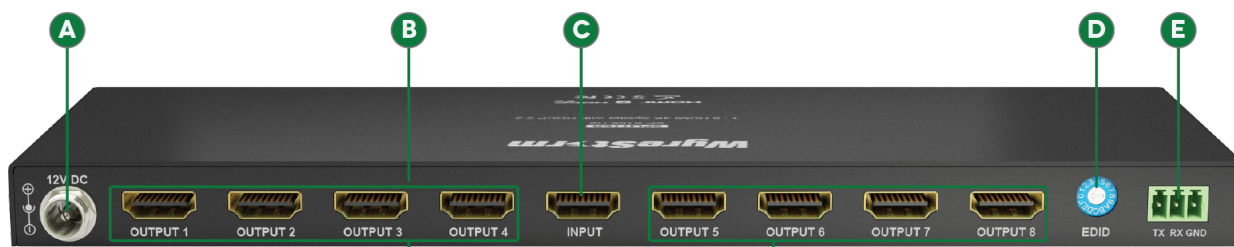
1. Connect an HDMI source to the **HDMI In** on the splitter using an HDMI cable from a high quality brand such as [WyreStorm Express](#).
2. Connect HDTV displays to Output 1 using an HDMI cable from a high quality brand such as [WyreStorm Express](#).
3. Repeat step 2 for additional displays or additional splitters.
4. Connect the included 12V DC 1A power supply to the **DC 12V** jack.
5. Configure EDIDs per the **EDID Settings** section.

Front Panel



- | | |
|----------------------|--|
| A Input LED | Solid: HDMI source is connected and powered On.
Off: HDMI source is not connected or is powered Off. |
| B Output LEDs | SP-0104-H2: 1-4 SP-0108-H2: 1-8
Solid: Display is connected and powered On.
Off: Display is not connected or is powered Off. |
| C Power LED | Solid: The splitter is powered On
Off: The splitter is powered Off |

Rear Panel



- | | |
|-----------------------|--|
| A Power In | 5.5mm Male Barrel Jack
Connect to the included 100~240V AC 50/60Hz power supply.
SP-0104-H2: 12V DC 1A SP-0108-H2: 12V DC 1.5A |
| B HDMI Outputs | 19-pin type A HDMI female:
SP-0104-H2: 1-4 SP-0108-H2: 1-8
Supports HDMI and DVI/D (requires adapter-not included). Limited to 600MHz pixel clock. |
| C Input | 19-pin type A HDMI female:
Supports HDMI and DVI/D (requires adapter-not included). Limited to 600MHz pixel clock. |
| D EDID | Rotary Dial
Used to set EDIDs to correct resolution conflicts between the source and the display.
See EDID Settings . |
| E RS-232 | 3-pin Screw Down Phoenix Connector
Used to update firmware on the SP-0104-H2. See RS-232 Wiring . |

HDMI Wiring

IMPORTANT! Wiring Guidelines

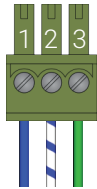
- The use of patch panels, wall plates, cable extenders, kinks in cables, and electrical or environmental interference can have an adverse effect on HDMI transmission limiting performance. Steps should be taken to minimize these factors (or remove completely) during installation for best results.
- WyreStorm recommends using HDMI cables from a high quality brand such as [WyreStorm Express](#).
- Active HDMI cables or extenders must be used for distances greater than 10m between the splitter and connected devices in order to maintain the highest level of video performance.




RS-232 Wiring

RS-232 Connection Guidelines

The following wiring diagram shows the pinouts for the extender set. While not shown, connect the TX (transmit) to RX (receive) pins at the control system or PC side of the cable.

Most control systems and computers are DTE where pin 2 is RX, this can vary from device to device. Refer to the documentation for the connected device for pin functionality to ensure that the correct connections can be made.



- Pin 1:  TX (Transmit)
- Pin 2:  RX (Receive)
- Pin 3:  Ground (GND)

Wire colors shown follow EIA-561 standard.

EDID Settings

EDIDs can be configured to resolve issues with video output on displays that may not accept the maximum resolution available from the source.



Note:

- Ensure that a display is connected and powered On to the selected output before copying EDIDs or the copy will fail. When this occurs, EDID will be set to 1080p 2ch.
- Power to the matrix must be cycled (Off/On) after changing dip switches in order for the setting to take effect.

Position	Video Resolution and Audio
0	Copy EDID from HDMI output1 (default setting)
1	1080i 2ch
2	1080i Dolby/DTS 5.1ch
3	1080i, HD Audio
4	1080p 2ch
5	1080p Dolby/DTS 5.1ch
6	1080p HD Audio
7	3D 2ch
8	3D Dolby/DTS 5.1ch
9	3D HD Audio
A	1280x1024 DVI
B	1920x1080 DVI
C	1920x1200 DVI
D	4K@30HZ 2ch
E	4K@60HZ 2ch
F	Copy EDID from HDMI output2

Specifications

Audio and Video	
Inputs	1x HDMI 19-pin type A
Outputs	SP-0104-H2: 4x HDMI 19-pin type A SP-0108-H2: 8x HDMI 19-pin type A
Audio Formats	2ch PCM Up to DTS-X and Dolby Atmos
Video Resolutions (Max)	HDMI
	1920x1080p @60Hz 12bit (15m/49.2ft) 16bit (15m/49.2ft)
	3840x2160p @30Hz 4:4:4 8bit (15m/49.2ft) @24Hz 4:2:0 HDR 10bit (15m/49.2ft) 4096x2160p @60Hz 8bit 4:2:0 (15m/49.2ft) @60Hz 8bit 4:4:4 (3m/9.8ft)
Color Depth	1080p: 48bit 4K UHD: 24bit HDR @24p: 10bit BT.2020
Maximum Pixel Clock	HDMI: 600mHz
Communication and Control	
HDMI	HDMI 2.0 HDCP 2.2 Configurable EDID DVI/D supported with adapter (not included)
RS-232	1x RS-232 3-pin Phoenix Connector
Power	
Power Supply	Input: 100~240V AC 50/60Hz SP-0104-H2: 12V DC 1A SP-0108-H2: 12V DC 1.5A
Max Power Consumption	SP-0104-H2: 4W SP-0108-H2: 6W
Environmental	
Operating Temperature	32°F ~ 113°F (0°C ~ 45°C) 10% ~ 90%, non-condensing
Storage Temperature	-4°F ~ 158°F (-20°C ~ +70°C) 10% ~ 90%, non-condensing
Maximum BTU	SP-0104-H2: 13.64 BTU/hr SP-0108-H2: 20.47 BTU/hr

	SP-0104-H2	SP-0108-H2
Dimensions and Weight		
Rack Units	0.4U	0.4U
Height	18mm/0.8in	18mm/0.8in
Width	167.2mm/6.59in	257.2mm/10.13in
Depth	69.7mm/2.75in	89.7mm/3.54in
Weight	0.32kg/0.7lbs	0.58kg/1.28lbs
Regulatory		
Safety and Emission	CE FCC	

Troubleshooting

No or Poor Quality Picture (snow or noisy image)

- Verify that power is being supplied to the splitter, sources, and display devices.
- Verify that the splitter supports the output resolution of the source.
- Verify that the splitter and display devices support the output resolution of the source.
- Configure [EDID Settings](#) to a lower resolution.

- If transmitting 3D or 4K, verify that the HDMI cables used are 3D or 4K rated.
- Verify that all source and HDBaseT connections are not loose and are functioning properly.

Troubleshooting Tips:

- WyreStorm recommends using a cable tester or connecting the cable to other devices to verify functionality.

Warranty Information

This product is covered by a 2 year limited parts and labor warranty. During this period there will be no charge for unit repair, component replacement or complete product replacement in the event of malfunction. The decision to repair or replace will be made by the manufacturer. This limited warranty only covers defects in materials or workmanship and excludes normal wear and tear or cosmetic damage. Visit the product page located at wyrestorm.com for additional information on this product including important technical information not provided in this document and warranty terms & conditions.

