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Data Sheet

DisplayPort to DisplayPort Multi-Monitor Splitter - 3-Port MST Hub

Product ID: MSTDP123DP



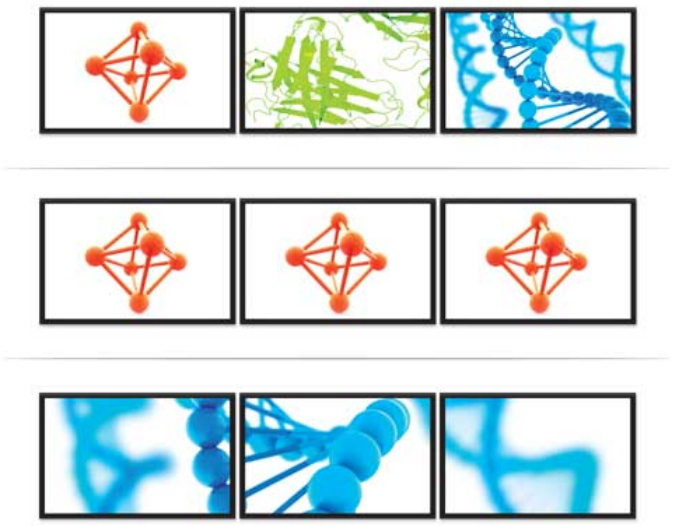
This MST hub lets you connect three monitors to your DisplayPort™ (DP) 1.2 equipped Windows® laptop or desktop.

Increase productivity with multiple screens

The newest generations of computers are more portable than ever, which often means that you're left with fewer video outputs and smaller integrated screens. This MST hub solves both of these problems by letting you connect three additional displays to your computer, which makes multitasking much easier.

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Connect to any display

With the MST hub, you can use DisplayPort video adapters and cable adapters that enable you to connect HDMI, VGA or DVI displays. This ensures your MST hub will be compatible with virtually any television, monitor or projector. This MST hub is VESA and DisplayPort certified to support DP 1.2 enabled systems, for seamless integration with your existing video equipment.



Configure your displays for any environment

Using the MST hub, you can extend your desktop onto additional monitors and stream independent content to each display giving you the freedom to multitask and increase your productivity. You can also mirror the same image onto multiple displays for remote viewing applications such as digital signage.



Enjoy amazing video quality, without draining system resources

MST technology uses your existing video card to minimize the use of system resources while delivering Ultra HD 4K resolutions. This unprecedented performance makes MST perfect for high-resolution applications such as graphic design, gaming and medical imaging.

Note: When using a DisplayPort 1.1 video card the MSTDP123DP will act as splitter, automatically mirroring your video source across all displays. Resolution limitations apply.

The MSTDP123DP supports plug-and-play installation for a hassle-free setup, and is backed by a StarTech.com 2-year warranty and free lifetime technical support.

Note: MST shares 21.6 Gbps across all attached displays. Higher resolutions can restrict the available bandwidth with the remaining ports, please see our guideline below for determining an ideal resolution for your setup. Certain graphics adapters have limited MST support and will only output to three displays in total. If more than three monitors are attached the fourth will be disabled.

Average Resolution Bandwidth Allocation

1920x1080 (High-definition 1080p) @60hz - 22%
1920x1200 @60hz - 30%
2560x1440 @60hz - 35%
2560x1600 @60hz - 38%
3840 x 2160 (Ultra HD 4K) @30hz - 38%

Note: Exceeding 100% will reduce functionality.

Examples of Supported Resolution Configurations

Screen 1 Resolution	Screen 2 Resolution	Screen 3 Resolution	Total % of Bandwidth
1920x1200 @60hz (30%)	1920x1200 @60hz (30%)	1920x1200 @60hz (30%)	90%
2560x1440 @60hz (35%)	2560x1440 @60hz (35%)	1920x1200 @60hz (30%)	100%
2560x1600 @60hz (38%)	2560x1600 @60hz (38%)	1920x1080 @60hz (22%)	98%
3840x2160 @30hz (38%)	2560x1600 @60hz (38%)	1920x1080 @60hz (22%)	98%
3840x2160 @30hz (38%)	3840x2160 @30hz (38%)	1920x1080 @60hz (22%)	98%

Examples of Unsupported Resolution Configurations

Screen 1 Resolution	Screen 2 Resolution	Screen 3 Resolution	Total % of Bandwidth
2560x1600 @60hz (38%)	2560x1600 @60hz (38%)	1920x1200 @60hz (30%)	106%
3840x2160 @30hz (38%)	2560x1600 @60hz (38%)	1920x1200 @60hz (30%)	106%
3840x2160 @30hz (38%)	2560x1600 @60hz (38%)	2560x1440 @60hz (35%)	111%
3840x2160 @30hz (38%)	3840x2160 @30hz (38%)	3840x2160 @30hz (38%)	114%

Certifications, Reports and Compatibility





Applications

- Use one screen for reference data such as websites, while composing in another screen
- Dock your DP 1.2 device and add three high-resolution displays at your workstation
- Create a panoramic video wall for DisplayPort digital signage applications
- Edit images, video or audio clips across three displays in any orientation or resolution
- Perfect for spanning a spreadsheet/worksheet across all three displays, to avoid side-scrolling
- Enjoy the panoramic views built into games and display helpful codes/walk-through data on a third display, at the same time

Features

- Maximize your productivity by connecting up to three independent displays to your computer using the MST Hub
- Connect to almost any television, monitor or projector with the support of low-cost adapters
- Increase external video performance with support for resolutions up to 4K
- VESA and DisplayPort certified
- Compatible with DP 1.2 Graphics cards such as AMD Radeon with Eyefinity Technology
- Plug-and-play installation
- Newly engineered chipset for increased compatibility

	Warranty	2 Years
Hardware	Active or Passive Adapter	Active
	Audio	Yes
	Chipset ID	MegaChips - STDP4320
	Ports	3
Performance	Maximum Digital Resolutions	Up to 4K
	Wide Screen Supported	Yes
Connector(s)	Connector A	1 - DisplayPort (20 pin) Latching Male
	Connector B	3 - DisplayPort (20 pin) Latching Female
Software	OS Compatibility	Windows 10 (32/64) Windows 8/8.1 (32/64) Windows 7(32/64)
Special Notes / Requirements	**Note**	DisplayPort 1.2 with MST+HBR2 support from the GPU is required for independent display output
Power	Center Tip Polarity	Positive
	Input Current	0.5 A
	Input Voltage	110V-240V AC
	Output Current	3A
	Output Voltage	5 DC
	Plug Type	N
	Power Consumption (In Watts)	15
	Power Source	AC Adapter Included
Environmental	Operating Temperature	0°C to 45°C (32°F to 113°F)
	Storage Temperature	-20°C to 70°C (-4°F to 158°F)
Physical Characteristics	Cable Length	7.5 in [19 cm]
	Color	Black
	Enclosure Type	Plastic
	Product Height	0.8 in [20 mm]
	Product Length	15.2 in [386 mm]
	Product Weight	3.5 oz [99 g]
	Product Width	3.1 in [78 mm]

Packaging Information	Shipping (Package) Weight	14.4 oz [409 g]
What's in the Box	Included in Package	1 - 3-Port Multi Monitor DisplayPort™ MST Hub 1 - Universal Power Adapter (NA/EU/UK/AUS) 1 - Instruction Manual

Product appearance and specifications are subject to change without notice.