MST Hub - Mini DisplayPort to 3x HDMI

StarTech ID: MSTMDP123HD

This MST hub lets you connect three HDMI® monitors to your Mini DisplayPort™ (mDP) 1.2 equipped Windows® laptop or desktop.
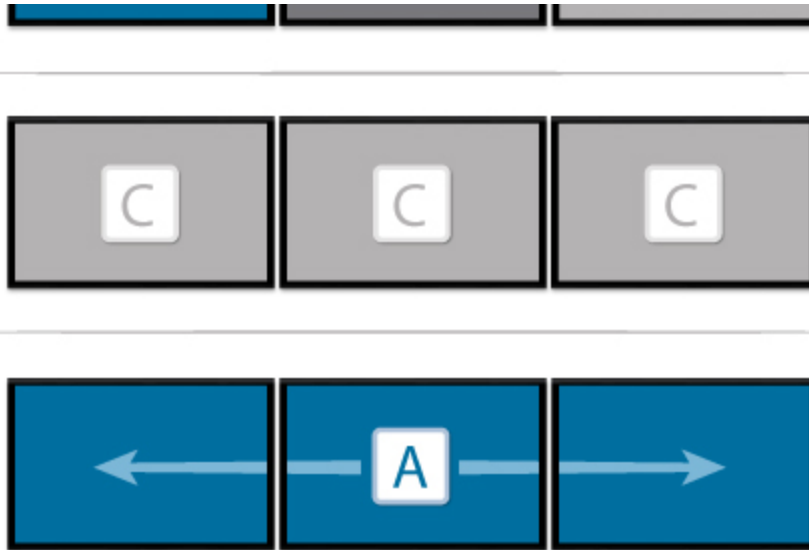
The hub features a newly engineered chipset that was specifically designed and rigorously tested to resolve compatibility issues with the Microsoft Surface™ Pro 3.

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.

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. You can also mirror the same image onto multiple HDMI televisions or projectors 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 MSTMDP123HD will act as a splitter, automatically mirroring your video source across all displays. Resolution limitations apply.

The MSTMDP123HD 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 for 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. Some monitors limit available resolutions.

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 - 43%

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%)	92%
2560x1600 @60hz (38%)	2560x1600 @60hz (38%)	1920x1080 @60hz (22%)	98%
3840x2160 @30hz (43%)	1920x1200 @60hz (30%)	1920x1080 @60hz (22%)	95%
3840x2160 @30hz (43%)	3840x2160 @30hz (43%)	None	86%

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 (43%)	2560x1600 @60hz (43%)	1920x1200 @60hz (30%)	116%

Screen 1 Resolution	Screen 2 Resolution	Screen 3 Resolution	Total % of Bandwidth
3840x2160 @30hz (43%)	2560x1600 @60hz (43%)	2560x1440 @60hz (35%)	121%
3840x2160 @30hz (43%)	3840x2160 @30hz (43%)	3840x2160 @30hz (38%)	124%

Applications

- Add more displays to your Surface Pro 3
- Use one screen for reference data such as websites, while composing in another screen
- Dock your mDP 1.2 device and add three high-resolution displays to 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/walkthrough 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 your Mini DisplayPort computer to HDMI televisions, monitors or projectors, avoiding the hassle of additional HDMI adapters
- Increase external video performance with support for resolutions up to 4K
- Newly engineered chipset for increased compatibility with Microsoft Surface Pro 3
- VESA and DisplayPort certified
- Compatible with mDP 1.2 graphics cards such as AMD Eyefinity Technology & AMD Radeon
- Plug-and-play installation

Technical Specifications

Warranty	2 Years
Color	Black
Enclosure Type	Plastic
Product Height	0.6 in [14 mm]
Product Length	4.5 in [114 mm]
Product Weight	4.2 oz [119 g]
Product Width	2.6 in [66 mm]
Chipset ID	STDP4320
Ports	3
Maximum Digital Resolutions	3840 x 2160 @30hz
Connector A	1 - Mini-DisplayPort (20 pin) Male Output
Connector B	3 - HDMI (19 pin) Female Output
Center Tip Polarity	Positive
Input Current	0.5 A
Input Voltage	110 ~ 240 AC
Output Current	3A
Output Voltage	5 DC
Plug Type	M
Power Source	AC Adapter Included
Humidity	50-90%
Operating Temperature	0°C to 45°C (32°F to 113°F)
Storage Temperature	-20°C to 70°C (-4°F to 158°F)
Shipping (Package) Weight	18.3 oz [519 g]
Included in Package	1 - Mini DisplayPort to 3x HDMI MST Hub
Included in Package	1 - Universal power adapter (NA/EU/UK/AU)
Included in Package	1 - Quick install guide
Audio	Yes
Converter Type	MST Hub
OS Compatibility	Windows 10 (32/64) Windows 8/8.1 (32/64) Windows 7(32/64)
Output Signal	HDMI
Supported Resolutions	1024x768 1280x720 (High-definition 720p)

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

Wide Screen Supported   Yes

Certifications, Reports and Compatibility