



StarTech MSTMDP122DP Multi Stream Transport Hub Installation Guide

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StarTech MSTMDP122DP Multi Stream Transport Hub



Packaging Contents

- 1x 2-port mDP to DP MST Hub
- 1x Quick install guide

System Requirements

- Mini DisplayPort 1.2 enabled computer system
- Up to 2 DisplayPort monitors with cabling

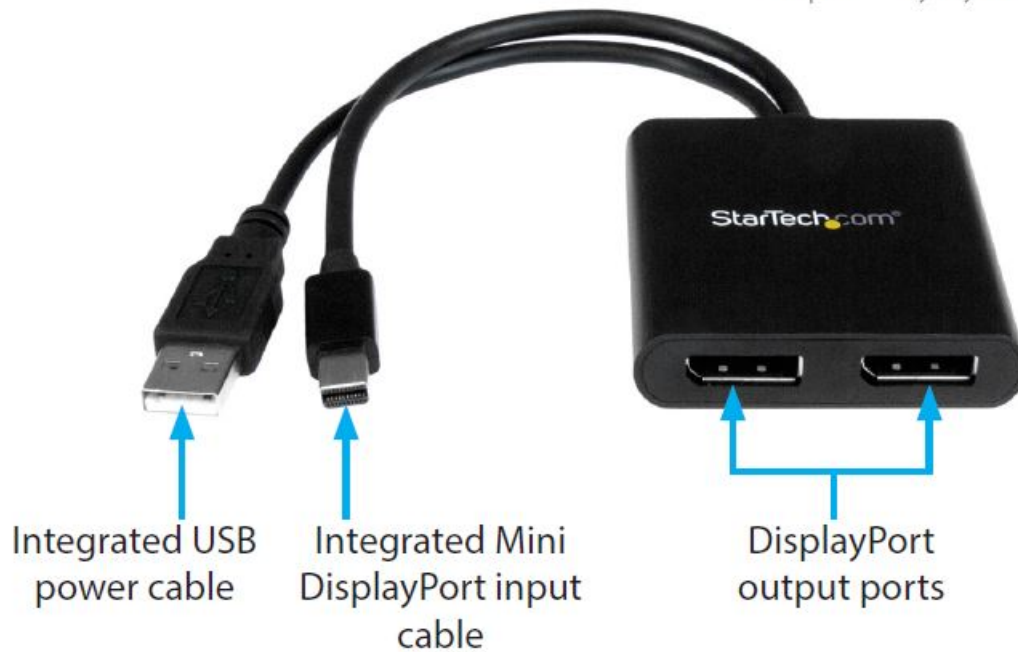
Note: Different types of displays such as HDMI, DVI and VGA are supported provided DisplayPort adapters are used. DisplayPort adapters are not included.

Installation

1. Ensure your computer system and monitors are powered off.
2. Connect the integrated Mini DisplayPort input cable to the Mini DisplayPort connector on your computer system.
3. Connect up to two DisplayPort monitors to the DisplayPort output ports on the MST Hub, using your video cabling.
4. Connect the integrated USB power cable to an available USB power source.
5. Power on your DisplayPort monitors followed by your computer system.
6. The system will now detect the MST Hub, and add the attached displays to the Display Settings of the System just as if the monitors were connected directly to your native video card.

Product Overview

*actual product may vary from photos



Important operation notes

- MST is certified for operation with Microsoft® Windows 10, 8/8.1 and 7 devices.
- MST is currently not supported by other operating systems such as Mac OS X and Chrome OS™.
- Other operating systems might adopt MST in the future. Verify MST support with your operating system manufacturer.
- Operating system support is subject to change. For the latest requirements, please visit:
www.StarTech.com/MSTMDP123DP
- After the MST hub has been connected to your computer it may be necessary to initiate the operation of additional displays from within your Windows Display Settings.
- The SCAN button resyncs all of the attached displays, and can be utilized if any of the displays are not detected.
- The MST adapter works with DisplayPort cables up to 15 ft. in length.
- 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, including built-in laptop monitors or touchscreen displays.
- MST shares 21.6Gbps of bandwidth across all attached displays. Higher resolutions can restrict the bandwidth available for the remaining ports. Please see our guidelines below for determining the ideal resolution for your setup.

Average resolution bandwidth allocation

1920×1080 (High-definition 1080p) @60Hz – 22% 1920×1200 @60Hz – 30%
2560×1440 @60Hz – 35%
2560×1600 @60Hz – 38%
3840×2160 (Ultra HD 4K) @30Hz – 38%

Note: Exceeding 100% will prevent monitors from turning on.

Examples of supported resolution configurations

Screen 1 resolution	Screen 2 resolution	Screen 3 resolution	Total % of bandwidth
1920×1200 @60Hz (30%)	1920×1200 @60Hz (30%)	1920×1200 @60Hz (30%)	90%
2560×1440 @60Hz (35%)	2560×1440 @60Hz (35%)	1920×1200 @60Hz (30%)	100%
2560×1600 @60Hz (38%)	2560×1600 @60Hz (38%)	1920×1080 @60Hz (22%)	98%
3840×2160 @30Hz (38%)	2560×1600 @60Hz (38%)	1920×1080 @60Hz (22%)	98%
3840×2160 @30Hz (38%)	3840×2160 @30Hz (38%)	1920×1080 @60Hz (22%)	98%

Examples of unsupported resolution configurations

Screen 1 resolution	Screen 2 resolution	Screen 3 resolution	Total % of bandwidth
2560×1600 @60Hz (38%)	2560×1600 @60Hz (38%)	1920×1200 @60Hz (30%)	106%
3840×2160 @30Hz (38%)	2560×1600 @60Hz (38%)	1920×1200 @60Hz (30%)	106%
3840×2160 @30Hz (38%)	2560×1600 @60Hz (38%)	2560×1440 @60Hz (35%)	111%
3840×2160 @30Hz (38%)	3840×2160 @30Hz (38%)	3840×2160 @30Hz (38%)	114%

FCC Compliance Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by StarTech.com could void the user's authority to operate the equipment.

Industry Canada Statement

This Class B digital apparatus complies with Canadian ICES-003.
CAN ICES-3 (B)/NMB-3(B)

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For the latest drivers/software, please visit www.startech.com/downloads

Warranty Information

This product is backed by a three-year warranty.

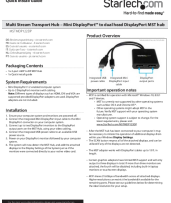
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Documents / Resources

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