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Multi Stream Transport Hub – DisplayPort™ 1.2 to Dual Head DisplayPort MST Hub

Product Diagram (MSTDP122DP)

Requirements

For the latest requirements, please visit www.startech.com/MSTDP122DP

- DisplayPort 1.2 enabled **Host Computer** x 1

  Note: MST is certified for operation with Microsoft® Windows 10, 8, 8.1, and 7 devices.

- DisplayPort Monitors x 2
- DisplayPort Cables (max.15 ft.) x 2
- USB Power Adapter x 1

Component		Function
1	DisplayPort Connector	• Connects the **Hub** to the **Host Computer**. • After the MST hub has been connected to the **Host Computer** it may be necessary to initiate the operation of additional displays from within your Windows **Display Settings**.
2	USB-A Power Connector	• Connect the **Hub** to a **USB Power Adapter**.
3	DisplayPort Ports x 2	• Connect up to 2 **Display Devices** to the **Hub**.
4	Scan Button	• Re-syncs all of the attached displays, and can be utilized if any of the displays are not detected.

Installing the Hub

1. Ensure the **Host Computer** and **Displays** are powered off.
2. Connect the **DisplayPort Connect** on the **Hub** to a DisplayPort port on a **Host Computer**.
3. Connect a **DisplayPort Cable** (sold separately) to one of the **DisplayPort Ports** on the **Hub** and the other end up to a DisplayPort port on a **Display Device**.
4. Repeat step 3 to connect a second **Display Device** to the **Hub**.

   Note: 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.

5. Connect the **USB-A Power Connector** on the **Hub** to a **USB Power Adapter**.
6. Connect the **USB Power Adapter** to an **AC Electrical Outlet**.
7. Power on the connected **Display Devices** followed by the **Host Computer**.
8. The system will now detect the **Hub**, and add the attached **Display Devices** to the **Display Settings** on the System.

Average Resolution Bandwidth Allocation

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.

Resolution	Bandwidth
1920x1080 (High-definition 1080p) @ 60Hz	22%
1920x1200 @ 60Hz	30%
2560x1440 @ 60Hz	35%
2560x1600 @ 60Hz	38%
3840x2160 (Ultra HD 4K) @ 30Hz	38%

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

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%