Quick-start guide

MST Hub - DisplayPort over USB-C to 3x DisplayPort

MSTCDP123DP

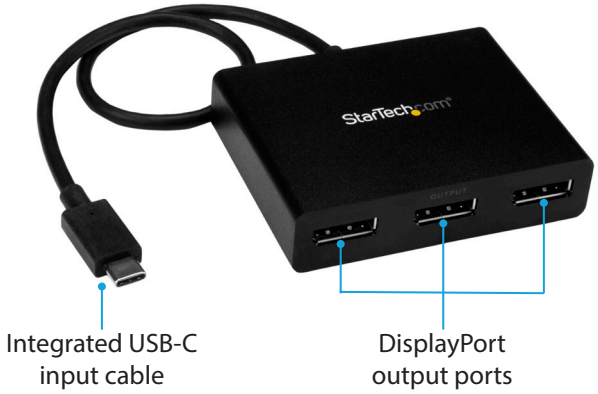
DE: Bedienungsanleitung - de.startech.com
FR: Guide de l'utilisateur - fr.startech.com
ES: Guía del usuario - es.startech.com
IT: Guida per l'uso - it.startech.com
NL: Gebruiksaanwijzing - nl.startech.com
PT: Guia do usuário - pt.startech.com

Introduction

This MST hub enables a Windows® device that's equipped with DisplayPort over USB-C™ (DP alt mode) to connect three DisplayPort monitors.

Product overview

*actual product may vary from photos



Package contents

- 1 x MST hub
- 1 x quick-start guide

System requirements

- 1 x computer with:
  - DisplayPort over USB-C video support (DP Alt Mode)
  - One of the following operating systems:
    - Windows® 10 (32-bit or 64-bit)
    - Windows 8 / 8.1 (32-bit or 64-bit)
    - Windows 7 (32-bit or 64-bit)
- 3 x DisplayPort monitors with cabling

Operating systems are subject to change. For the latest requirements, please visit www.StarTech.com/MSTCDP123DP.

Installation

This device is natively supported in compatible operating systems and supports plug-and-play installation.

Important operation notes

- The USB-C port on your computer must support DisplayPort over USB-C (DP Alt mode) in order to work with this MST hub.
- 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/MSTCDP123DP.
- 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

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.

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%

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