User Guide

USBC-MSTH2

Overview

USBC-MSTH2 is a compact USB-C to dual HDMI adapter that connects directly to the system graphics through DisplayPort Alternate Mode with Multi Stream Transport. It is designed for Windows and ChromeOS computers to extend the desktop to two external HDMI displays at up to 4K at 60Hz each when the computer supports DisplayPort 1.4. macOS is not recommended because it does not support MST for extending to two independent displays.

In the box

- USBC-MSTH2 adapter
- Welcome card
- HDMI cables are not included

Supported display configurations

Host capabilities determine maximum resolution and refresh rates. Please check with your systems manufacturer to verify host graphics capabilities over USB-C.

- DisplayPort 1.4 host can support dual 4K at 60Hz monitors
- DisplayPort 1.2 host can support dual 1920x1080 at 60Hz monitors

Notes

- This adapter does not support 8K modes.
- On macOS and iPadOS the two HDMI outputs mirror the same image. Only one extended display is possible.

Host system requirements

USB-C or Thunderbolt 3 or Thunderbolt 4 or USB4 port with DisplayPort Alternate Mode video output. Latest graphics and system updates are recommended. The system must support DisplayPort 1.4 (or higher) with DSC in order to achieve dual 4K at 60Hz. HDMI 2.0-rated video cables are required.

- For two 4K at 60Hz displays, the computer should support DisplayPort 1.4 over USB-C
- For two 1080p at 60Hz displays, the computer may support DisplayPort 1.2 over USB-C

Monitor and cable requirements

- Monitor must support 4K at 60Hz
- Use certified High Speed HDMI 2.0 cables
- HDCP is supported for protected video playback when used with compatible services and applications

Power and charging

- The adapter is bus powered from the USB-C port
- No external power supply is required
- The adapter does not provide laptop charging and does not have downstream USB data ports

Quick setup

1. Verify the computer has a USB-C or Thunderbolt port with DisplayPort Alt Mode and that the operating system is supported.
2. Connect the USBC-MSTH2 to the computer.
3. Connect each HDMI output on the adapter to a display using HDMI 2.0 cables.
4. Power on the displays and select the HDMI inputs in the display menus.
5. Configure the desktop layout and resolution.

Windows

- Right-click the desktop and select Display settings
- Under Multiple displays, choose Extend these displays
- Select each display and set the resolution and refresh rate. For 4K at 60Hz choose 3840x2160 at 60Hz

ChromeOS

- Select the time at the bottom right then the settings gear
- Open Device then Displays
- Set Arrangement to extend and set the resolution and refresh rate for each display

Best practices and tips

- For 4K at 60Hz, ensure the computer supports DisplayPort 1.4 (or higher) with DSC and use HDMI 2.0-rated video cables. Monitors must also support 4K 60Hz.
- Connect displays directly to the adapter. Avoid using any signal converters between the adapter and the monitors.
- Update graphics drivers and firmware from the system manufacturer

- If a display is not detected, power cycle the display and briefly disconnect and reconnect the adapter. Verify that your system can support DisplayPort Alt Mode (DP Alt Mode) over USB-C.

Supported operating systems

- Windows 10 or newer
- ChromeOS 100 or newer

Not recommended Operating Systems

- MacOS: macOS does not support MST, limiting this hub to only one extended display and one mirrored display.
- Linux: While Linux supports DisplayPort MST, inconsistent driver support across distributions prevents us from recommending MST-based solutions at this time.

Looking for more information? Additional information for getting started and product details are available on the Plugable product page:
https://plugable.com/products/usbc-msth2#nav-get-started