# MS-DPA-HCP

Solutions

The Ultimate Plug-and-Play USB-C, DP Alternate Mode Extender for 4K Video, Data, and Charging with a switchable HDMI video input







## Description:

The MS-DPA-HCP USB-C and HDMI Extender offers a new level of seamless connectivity. This product is capable of extending USB-C DP Alternate Mode over a single Cat6A cable. Supporting video up to 4K 60Hz 4:4:4 18G and USB 2.0 data. This solution delivers flawless performance with no Driver Installation, no applications required, and no hassle. In addition, the host unit includes an HDMI input as a secondary video source, allowing users to switch freely between HDMI and USB-C DP alt mode as the video source. The primary source of video is the USB-C port (this will auto switch upon connection). The user can switch the video source to the HDMI port when needed*. The MS-DPA-HCP extender ensures versatile connectivity for video and data, including a 60W charge of the laptop from the Host unit. The MS-DPA-HCP is the ultimate plug-and-play HDMI/USB-C DP alternate mode extender.

**Host**




**Device**




## Key Features:

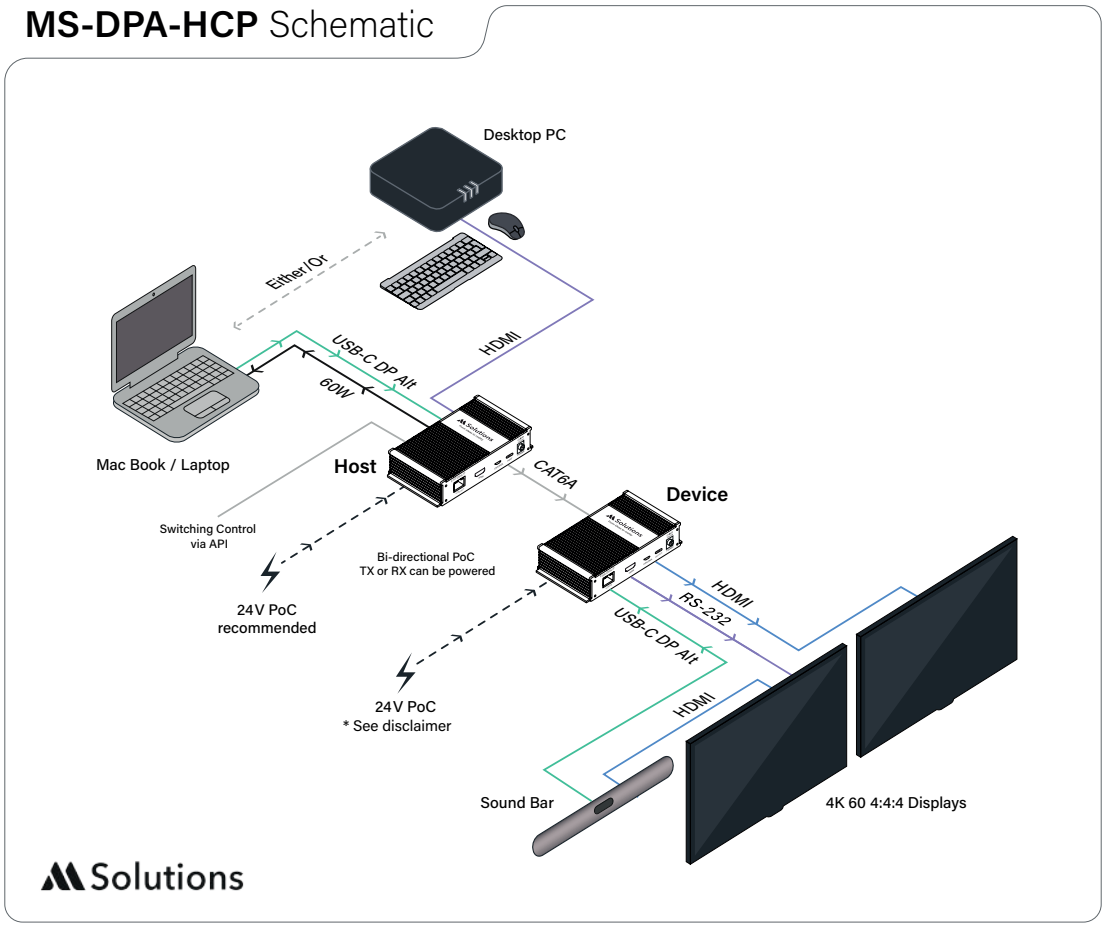
- Support for 4/2 lanes in DisplayPort Alt Mode via USB Type-C
- Robust video performance, supporting 4K60 4:4:4 18G
- Extension of USB DP Alternate mode signals up to 100m over a single CAT6A cable
- USB-C on the device side supports full DP Alt Mode including USB 2.0 data and just data when working with HDMI
- Supports 60W of charge to the Host laptop
- Bi-directional RS-232 serial pass through
- Bi-directional 24V PoC (Power over Cable)
- HDCP2.2 compliant
- *Priority video source is the USB-C with the ability to switch between sources with API or disconnecting one of the inputs
- Compatible with Mac and Windows devices

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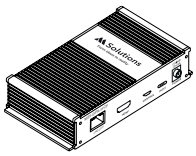
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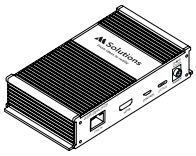
## **MS-DPA-HCP** Schematic




**Host**



**Device**



*** For Guaranteed Performance:** Always connect the power supply to the Host side when host laptop charging is required.

**Device-Side Powering:** Charging functionality when powered from the Device side is host-dependent, cannot be guaranteed for all PC models, and may affect link stability.

USB-C DP Alt
RS-232
HDMI

## Specifications:

- Host (TX): 1x link output (RJ45 port), 1x USB-C (Female) – DP Alt Mode, data and laptop charging, 1x HDMI for video
- Micro-USB connectivity for switching control, product update, Cloud control and monitoring
- Device (RX): 1x link input (RJ45 port), 1x USB-C (Female) for DP Alt mode and data, 1x HDMI output for video
- Micro-USB connectivity for product update, Cloud control and monitoring
- RS-232 connectivity (Host & Device)
- 1x 3-pin phoenix connector, block included
- Power supply: 1x 24V 4A DC
- Power consumption: 10W
- Charging Power: 60W
- Individual unit dimensions (W x D x H): 135 x 70 x 31mm
- Individual unit weight: 0.24kg (0.53 lb)
- Package dimensions (W x D x H): 163 x147 x 85mm
- Package weight: 1kg (2.2 lb)
- Operating temperature: 32°F to 104°F (0°C to 40°C)
- Storage temperature: -4°F to 140°F (-20°C to 60°C)
- Operating humidity: 0–80% non condensing
- Installation requires CAT6A cable or above

RoHS Compliant


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