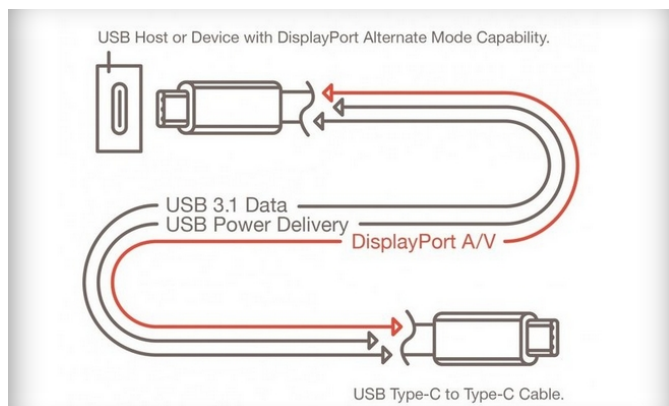


USB Type-C Gets DisplayPort

Written by Marco Attard
24 September 2014

The Video Electronics Standards Association joins the USB 3.0 Promoter Group to add DisplayPort Alternate Mode (aka "Alt Mode") to the upcoming USB Type-C standard.



Essentially, Alt Mode adds DisplayPort capabilities to USB Type-C connectors and cables, allowing them the carrying of video signals (up to 4K), SuperSpeed USB (USB 3.1) data and up to 100W of power. It will also feature adapters to support existing DisplayPort, HDMI, DVI and VGA displays.

For the technically curious, VESA says Alt Mode "repurposes some or all of the four existing SuperSpeed USB lanes to deliver full DisplayPort performance, and uses other signaling available in the USB Type-C connector for DisplayPort's AUX channel and HPD (Hot Plug Detection) function. This enables computers, tablets, smartphones, displays, and docking stations to implement the new USB Type-C connector at both ends while using the DisplayPort Standard over USB Type-C to transmit high-resolution A/V along with USB data and power."

The specifications are not finalised, but early Alt Mode implementations support DisplayPort 1.2a capabilities with up to 5.4Gbps per lane, allowing for up to 4K (4096x2160) resolution video at 60Hz and up to 30-bit colour.

Alt Mode also allows users to connect devices to a DisplayPort device via reversible USB Type-C to DisplayPort converter cable, and HDMI, DVI or VGA displays via appropriate adapters.

Will Alt Mode turn USB Type-C into the ultimate single-cable video, data and charging solution?

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We will know once the first device with compatible ports hit the market sometime on 2015.

Go [VESA Brings DisplayPort to New USB Type-C Connector](#)