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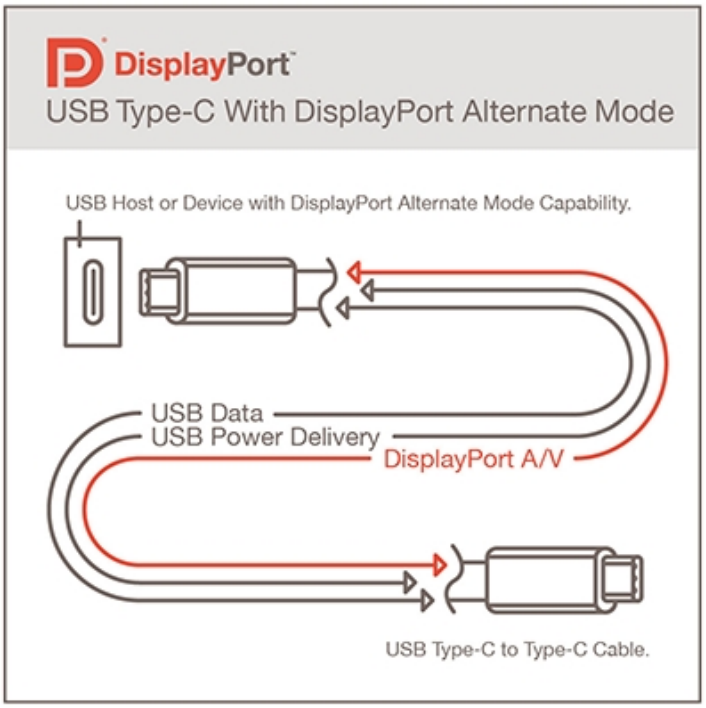
The Video Electronics Standards Association (VESA) announces version 2.0 of the DisplayPort Alternate Mode (aka Alt Mode) standard, providing seamless interoperability with the recently released USB4 specification.



DisplayPort Alt Mode 2.0 fully enables all the features of the latest version of the DisplayPort standard (version 2.0) through the USB-C connector. Through Alt Mode, the USB-C connector can transmit up to 80Gbps of DisplayPort video data utilising all four high-speed lanes in the cables, or up to 40Gbps with simultaneous SuperSpeed USB data delivery.

Introduced in June 2019, DisplayPort 2.0 provides an 3X increase in data bandwidth performance over the previous version. It also supports future-proof capabilities such as beyond-8K resolutions, higher refresh rates and HDR support at higher resolutions, improved multiple display configuration support and an improved user experience with AR/VR displays, including support for 4K-and-beyond VR resolutions. Highly efficient 128b/132b channel coding (shared with USB4) allows DisplayPort 2.0 to deliver a maximum payload of 77.37Gbps across all four lanes (up to 19.34Gbps per lane), supporting ultra-high display performance configurations such as an 8K (7680 x 4320) display with 30bpp 4:4:4 HDR resolution with compression.

VESA says the first products incorporating DisplayPort Alt Mode 2.0 will hit the market in 2021.

Go VESA Releases Updated DisplayPort Alt Mode Spec