

VESA Releases DisplayPort 1.3 Standard

Written by Marco Attard
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The Video Electronics Standards Association (VESA) announces the release of the DisplayPort 1.3 AV standard-- an update increasing maximum link bandwidth by 50% in comparison to the previous 1.2a standard.



DisplayPort 1.3 handles up to 32.Gbps, with four lanes running at a link rate of 8.1Gbps/lane. According to VESA the 32.Gbps combined link rate carries up to 25.92Gbps of uncompressed video data.

The bandwidth increase allows for higher resolution monitors, including 5K (5120x2880) monitors, using a single DisplayPort cable with no compression. It also enables higher resolutions when driving multiple monitors through a single connection via Multi-Stream, such as the use of two 4K (3840x2160) monitors, when using VESA Coordinated Video Timing.

Being 4-lane DisplayPort 1.3 can handle a single 4K monitor with 60Hz refresh and 24-bit colour over 2 lanes, while assigning the remaining 2 lanes to other data types, such as SuperSpeed USB data as allowed in DockPort.

The standard supports conversion to VGA, DVI and HDMI, and adds HDCP 2.2 and HDMI 2.0 with CEC. It also adds 4:2:0 pixel structure support, a format commonly found in consumer digital TV interfaces.

"These new enhancements to DisplayPort will facilitate both higher resolution displays, as well as easier integration of DisplayPort into multi-protocol data transports, which will satisfy consumer's desire for simplicity and ease-of-use," VESA says.

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