

DP 2.1 LL CTS

HDCP 2.3 CTS

16K
UHD



UCD-500 Gen2

DisplayPort™ 2.1 16K Video Generator & Analyzer

UCD-500 Gen 2 is a video generator and analyzer unit for testing DisplayPort™ 2.1 Sinks and Sources up to 8K@60Hz (16K@60 Hz with DSC) video modes with UHBR 20 Max Bit Rate Capability. UCD-500 Gen2 supports 20 Gb rate max capability for USB-C and DP connectors. UCD-500 Gen 2 supports DP 2.1 features like Adaptive-Sync, DSC, FEC and LTTTPR.

Compliance Test Tool

UCD-500 Gen2 is a Compliance Test Tool for validating DP 2.1 & DP 1.4a Link Layer on DP Sinks and Sources. UCD-500 Gen 2 also supports DisplayID/EDID and Adaptive-Syncs CTS tests. It is also a Compliance Test Tool for HDCP 2.2/2.3 on DP Transmitters, Receivers and Repeaters.

DP Link Analyzer

Capture bulk data and analyze main link data with DP Link Analyzer. For each bulk capture, the data is parsed in a timeline view presenting the captured frames. Within each frame, users can have a deep view of the events and metadata that occurs in each line. Measure distances in nanoseconds and symbol size to identify the length of problems in between events. Observe descrambled and scrambled symbols in hexadecimal format in each of the active lanes. The DP Link analyzer is a valuable debugging tool for DP source designers.

Highlights

- 16K Video Generator & Analyzer
- DP and USB-C inputs and outputs
- 10, 13.5 and 20 Gbp/s lane rates
- 8K@60Hz without compression
- 16K@60Hz with DSC
- DP 2.1 Link Layer CTS
- HDCP 2.3 CTS for receivers, transmitters and repeaters
- Adaptive-Sync
 - On source side for all link rates. SST and MST are limited to stream 0
- Support for DSC, FEC and LTTTPR
- View and edit EDID and DPCD registers
- Color depth 6 to 16bpc
- Color formats: RGB, YCbCr 444, 422, 420, Raw
- Capture memory 16G
- Color formats: RGB, YCbCr 444, 422, 420, Raw