DPR-100

compact sized DisplayPort™ Reference Sink with Sink Console

Full DP Reference Sink Functionality

DPR-100 is a very compact, yet full featured DisplayPort™ reference Sink. It provides all features needed for testing DisplayPort™ source devices like PC display cards or portable computers. The DPR-100 allows you to monitor all aspects of the DP interface like Link and HDCP status and MSA. You can manually read and set DPR-100 DPCD, sink capabilities, issue varying HPD pulses etc. The Sink Console GUI also includes an advanced EDID parser for viewing and reprogramming its EDID information.

Audio and HDCP Compliance Test

DPR-100 is a platform for running Audio and HDCP tests for DUT DP Source devices. DPR-100 with an appropriate software is certified by DCP LLC as **Authorized Test Equipment** for HDCP CTS.

AUX Controller for PHY Tests

As a second role, DPR-100 is operating as a DP AUX Controller to automate the DP PHY testing with a compliant PHY Test Equipment. With the AUX Controller firmware DPR-100 is compatible with Keysight, Teledyne LeCroy and Tektronix oscilloscopes. .

Benefits

- Compact sized DisplayPort™ sink
- Sink Console GUI enables full monitoring of the DP interface
- Certified for HDCP CTS
- AUX Controller for PHY CTS
- USB controlled and powered

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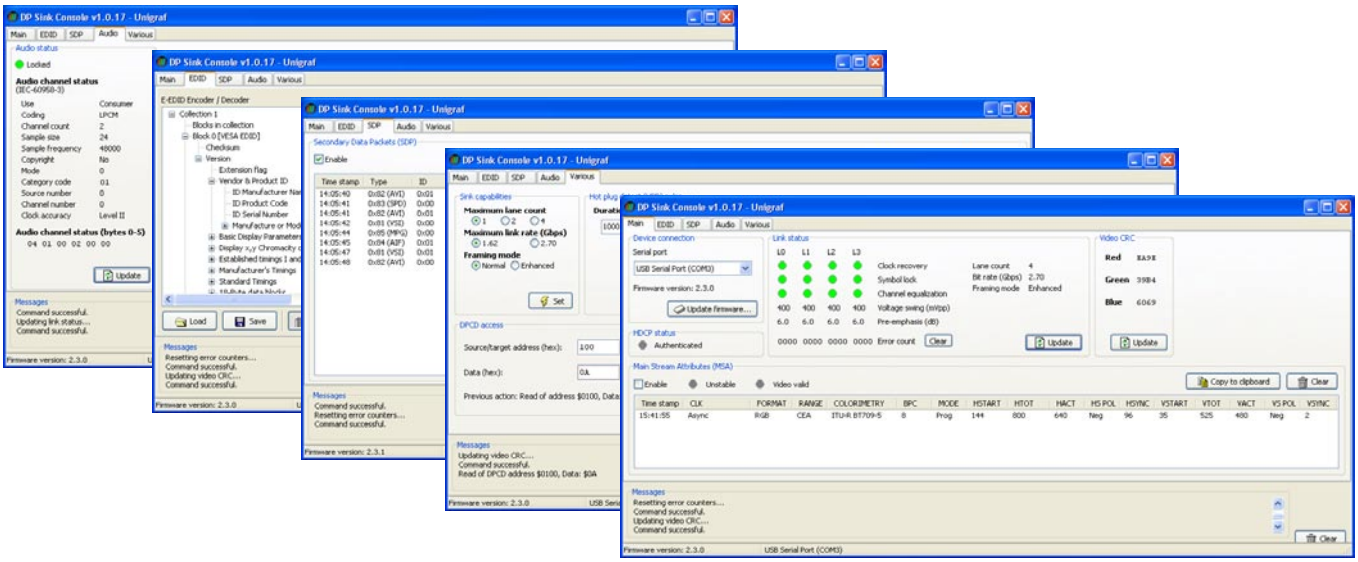

Sink Console GUI

As a development and debug tool, the DPR-100 is connected to a PC through its USB I/F and is operated from a GUI application. This application allows to

- Monitor the link status and Main Stream Attributes (MSA) like timing and color coding used
- Monitor video CRC and link error count
- Monitor Audio status
- Edit and vary DPR-100 DPCD information
- Reprogram EDID
- Vary DPR-100 capabilities like lane count and max rate
- Issue HPD with varying duration
- Report HDCP authentication status
- Audio output

CTS Software

The optional DisplayPort™ RefSink CTS tool enables executing Audio, HDCP or Extended HDCP compliance tests. Please refer to the documention of the RefSink CTS Tool.

Specifications

DisplayPort™ input	STMicroelectronics gm68020 receiver. Supports 1, 2 or 4 lane configurations, four levels of pre-emphasis and voltage swing, high and reduced bit rates
Resolutions	All VESA DMT/CVT and CEA 861-D timings up to 2560 x 1600 (RB) 60 Hz
EDID	Load EDID data from file, Program new EDID, Display & edit EDID contents
Audio	Up to 2 LPCM channels at 192 kHz, 24-bits or multi-channel compressed (AC3, DTS, etc) compliant with IEC60958 / IEC61937
Control	USB interface
Power supply	USB powered
Mechanical Size	105 x 130 x 35 mm
Weight	240 g

Specifications subject to change

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