

DPR-120

DisplayPort™ 1.2 Compliant Reference Sink



Full DP Reference Sink Functionality

DPR-120 is a compact, yet full featured DisplayPort™ 1.2 compliant Reference Sink. It provides all features needed for testing DisplayPort™ source devices like PC display cards or portable computers. The DPR-120 allows you to monitor all aspects of the DP Link and HDCP status and MSA. The Sink Console GUI provides DPCD read and write capability and an EDID parser for viewing and reprogramming its EDID information.

In addition to the Sink Console GUI, DPR-120 is the platform for DP 1.2 Link Layer CTS Extension tests. A Production Test Command set is included to integrate DPR-120 to your automated production system

For Engineering and Production

The compact size, only 23 x 17 x 5.6 centimeters make the DPR-120 ideal for both a laboratory desktop and production line instrument rack.

Benefits

- Compact sized DisplayPort™ 1.2 compliant Reference Sink
- Sink Console GUI enables full monitoring of the DP interface
- Platform for DP 1.2 LL CTS Ext set
- Pass through and preview outputs
- User programmable EDID
- USB controlled from PC

Preliminary

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Sink Console GUI

As a development and debug tool, the DPR-120 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)
- Monitor video CRC and link error count
- Monitor Audio status
- Edit and vary DPR-120 DPCD information
- Reprogram EDID
- Vary DPR-120 capabilities like lane count and max rate
- Issue HPD with varying duration
- Report HDCP authentication status

Production testing

As a production testing aid, the DPR-120 can execute one or more sequences of operations.

- A sequence of user definable steps involving basic functionality
- A (CTS) test out of a fixed set.

CTS Software

The optional DisplayPort™ RefSink CTS tool software enables a set of DP 1.2 CTS Link Layer compliance tests. Please refer to the documentation of the RefSink CTS Tool for details about the supported tests.

Specifications

Input	1 x DisplayPort™ 1.2 compliant, STMicroelectronics STDP9320 receiver
Outputs	1 x DisplayPort™ 1.2 daisy chain 1 x DisplayPort™ 1.1 compliant preview S/PDIF audio pass through
Resolutions	4096 x 2160 input & bypass 2560 x 1600 preview
Audio	Up to 2 LPCM channels at 192 kHz, 24-bits or multi-channel compressed (AC3, DTS, etc) compliant with IEC60958 / IEC61937
Control	USB2 interface
Software	Sink Console Link Status GUI DP RefSink CTS LL Extensions (option)
Power supply	AC/DC converter included
Mechanical Size	230 x 168 x 56 mm
Weight	0.9 kg w/o power supply

Preliminary

Specifications subject to change



www.unigraf.fi

UNIGRAF OY Piispantilankuja 4, FI-02240 Espoo, Finland
Tel +358 9 859 550

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