

# DPA-400 1.2

DisplayPort™ 1.2 AUX channel monitor



## Full DisplayPort™ AUX Channel Monitoring

DPA-400 1.2 is compact, pocket sized device that provides a full DisplayPort™ version 1.2 AUX channel traffic analysis. DPA400 1.2 and its Windows GUI enable the user to monitor, capture and document all messages sent by source, sink or branch devices.

Each AUX channel message is shown as time stamped raw data and also in its decoded form expressed with the same terminology used by the DisplayPort™ standard specification. Also the activity of the Hot Plug Detect (HPD) signal is tracked and documented by a time stamp marking each of its changes of state.

## Easy to Use

DPA-400 1.2 is USB-powered and measures only 10.5 x 13 x 3.5 centimeters, making it an ideal tool for a laboratory desktop and a snappy companion for a laptop computer.

DPA-400 1.2 delivery includes a custom cable for bypassing the main stream lane signals outside the unit. This ensures that the signal integrity of the main stream lines will not be compromised.

## Benefits

- Device independent
- Data interpreter with time stamps
- Detect and parse all DPCD locations
- Decode the Sideband CH Communication messages
- Pocket Size
- USB controlled and powered

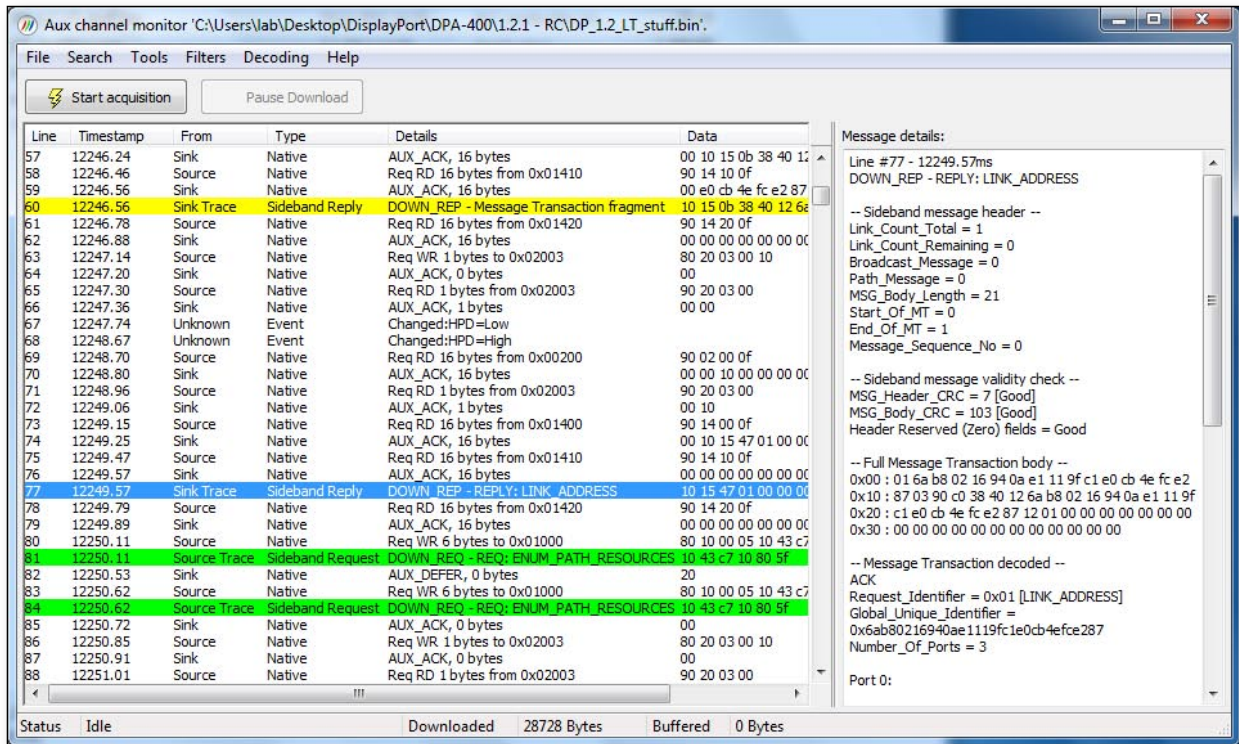
## Applications

- Silicon validation
- Software debug and validation
- Resolve interoperability problems
- Monitoring and time measurement of events



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## DPA-400 1.2 is a Powerful Tool

DPA-400 1.2 has a practically unlimited capture buffer size. The acquisition can be started or stopped using the rising or falling edge of HPD, one of the external inputs or a combination of them.

It decodes all DPCD memory locations and all of their bit fields, giving an exhaustive description of each of them and of the values read or written.

In the GUI the user can select between separate filters for monitoring Native, I<sup>2</sup>C and HDCP transactions and Sideband CH messages.

DPA-400 1.2 GUI generates all-in-one-file HTML reports of the captured data, complete with data decoding and powerful hyperlinks.

## Main Features

- DP Interfaces** One DisplayPort™ input and one output. AUX channel and HPD signals pass-through. For DP 1.2 use main stream lanes bypassed with a custom cable.
- Custom I/O** 3 trigger inputs, 3 expansion outputs, HPD output. ESD protection on all external signals
- PC Interface** USB interface, USB-powered. Software upgrade capability through USB
- Functionality** Real-time AUX traffic capturing, decoding and display. Detect and parse all DPCD locations and Sideband CH Communication messages. Data store and reload in binary format. Virtually unlimited capture buffer size. Time stamps with 32 µs resolution. HTML report generation.
- Mechanical** Outline dimensions 10.5 x 13 x 3.5 cm Weight 260 g



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