DPA-400

DisplayPort™ AUX channel monitor

Full DisplayPort™ AUX Channel Monitoring

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

Each 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 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.

It preserves signal integrity by buffering the Main stream data lanes. It can be inserted between a sink and a source without needing special shortened cables, custom adapters or expensive pods.

Benefits

- Device independent
- Data interpreter with time stamps
- Pocket Size
- USB controlled and powered

Applications

- Silicon validation
- Software debug and validation
- Solution of interoperatibility problems
- Documentation of functionality and implementations
- Monitoring and time measurement of events

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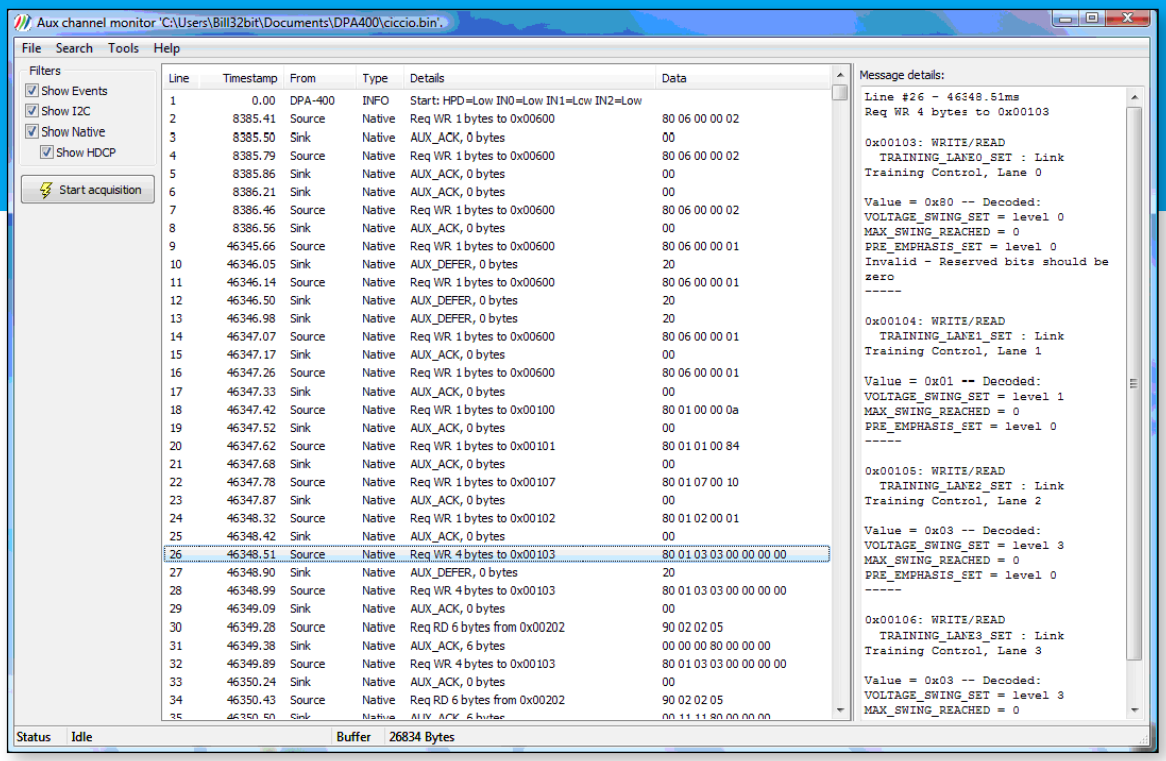

DPA-400 is a Powerful Tool

DPA-400 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, I²C and HDCP transactions.

DPA-400 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. Main stream lanes buffered with 1:1 amplification. Pin 20 pass-through
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 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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