Data Sheet

DisplayPort 1.2 Physical Layer Switch

Quarch Technology

Automatically and remotely configure paths between 1 Source and 8 Sink ports

Reduce Time to Market

Cut time to market by 20% for new products by automating manual test procedures

Reduce Capital Costs

Faster and more detailed testing with Torridon means fewer test systems are required in the lab. Less engineeering time is required to run the tests

Reduce Human Error

Removing human intervention during tests increases consistency and results in far fewer mistakes. Test scripting provides logging and 100% repeatability

Increase Product Reliability

Test a larger number of device configurations to find problems earlier in the development cycle.

Torridon Multiplexer Modules:
Automated solution for running test cases on multiple devices, Reconfigure data paths automatically during a test.

Complete Automation:
Any test that requires reconfiguration of DisplayPort 1.2 data paths can now be fully automated.

Simple Integration:
The Torridon System works with your existing automated test setup and integrates with minimal effort. A simple command set allows for easy scripting. Quarch provides full support as standard while you get started

Who Can Benefit?
Hardware designers
System Integrators
Hardware Qualification Labs
Silicon Manufacturers
Firmware/Driver Designers

Data Sheet

Torridon DisplayPort 1.2 Physical Layer Switch

Interface Specification

Power

- Supplied from external PSU (included)

Comms

- RS232 Serial and USB through Torridon Interface kit or Torridon Array Controller
- Telnet (With a Torridon Array Controller or stand alone version)

Ports

Connections

- miniDP source connection
- 8 miniDP sink connections

Speeds

- Supports all DisplayPort 1.2 bit rates

Ports

- 1 Source Port
- 8 Sink Ports

Physical Dimensions

- Length 164.5 mm
- Width 169.8 mm
- Height 53.5 mm

Ordering Information

QTL1530 - DisplayPort Physical Layer Switch - with Torridon Interface Cable

QTL1559 - DisplayPort Physical Layer Switch - Stand alone version (Telnet and USB)

Switching

Switching Method

- DisplayPort data signals are re-driven by a crosspoint switch
- AUX and sideband signals are routed through a passive multiplexer

Control

- Each lane from the source may be routed to one or more lanes on the sink connectors
- Individual lanes may also be turned off to emulate link failure

Signal Conditioning

Signal Conditioning

- Programmable Pre-Emphasis and Transmit Amplitude is available on each source port
- DisplayPort data signals are re-driven by the module but not re-timed. This results in high signal quality whilst preserving the timing characteristics of the orignal signal
- AUX channel and sideband signals are passively switched

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