

Torridon Quad QSFP Cable Pull Module



Hot-Swap automation for x4 Ganged QSFP Cables



Data Sheet

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

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

Advanced techniques, such as bounds testing and fault injection provide a higher level of confidence and reduced field returns

Torridon Cable Pull Modules:

Automated solution for Cable Pull / Push and Fault Injection. Cable Pull Modules vastly reduce test duration and introduce a level of repeatability and precision that is impossible during manual tests.

Complete Automation:

Any test that requires manual intervention to pull or plug a drive 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?

- Enclosure Manufacturers
- Silicon Manufacturers
- Storage System Integrators
- RAID Developers
- Qualification Labs

Torridon QSFP Cable Pull Module

Interface Specification

Power

- ▶ Supplied from Torridon Interface Card or Array Controller

Comms

- ▶ USB/Serial/Telnet options - As provided by your chosen interface option.

Cable Compatability

Sizes

- ▶ Compatible with 1x4 quad ganged SFP cages with 19mm pitch

Speeds

- ▶ Up to 6Gb/s data rates*

Glitching

Timing

- ▶ Glitch any combination of signals with pulses down to 50nS

Sequences

- ▶ Run glitches in sequences and PRBS patterns

Physical Dimensions

QTL1366

- ▶ Width 80 mm
- ▶ Offset ~60 mm

Timing Specification

Timers

- ▶ 6 Independent timers for multi stage hot-swap

Timing resolution

- ▶ 1mS

Pin-bounce resolution

- ▶ 10uS

Pin-bounce modes

- ▶ Constant Frequency
- ▶ User defined 112 bit pattern

Fault Injection

- ▶ Override cable EEPROM data

SAS Errors

- ▶ Create Framing Errors
- ▶ Force SAS Identify Sequence
- ▶ Fault one side of a pair
- ▶ Fault entire lanes
- ▶ Create random disruption

Switching

Switches

- ▶ High Speed RF switches
- ▶ Low insertion loss

Switched Pins

- ▶ All Data, Power and Management Interface pins may be switched independently

Support and Utilities

Phone and email support direct to the engineers as standard

'TestMonkey' GUI for rapid test prototyping, script generation and bench testing

Ordering Information

QTL1366 - Standard Module

Single units

- ▶ Ideal for bench testing, debugging and evaluation

Multiple units

- ▶ Run from a Torridon Array Controller for synchronized testing of larger storage systems

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* Currently qualified at 6Gb/s, performance up to 12Gb/s and beyond tbd