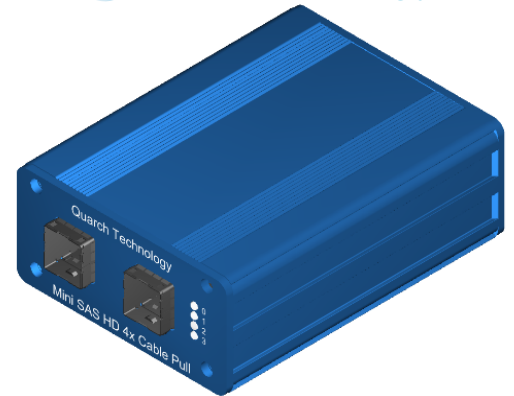


Torridon Mini SAS HD Cable Break



Hot-Swap automation for Mini SAS HD Cables



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 Break Modules:

Automated solution for Cable Pull / Push and Fault Injection. Cable Break 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 Mini SAS HD Cable Break Module

Interface Specification

Power

- ▶ Supplied from Torridon Interface Card or Array Controller

Comms

- ▶ USART Serial - DB9
- ▶ USART Serial - RJ45(RS232D)
- ▶ USB

Cable Compatability

Sizes

- ▶ Compatible with External Mini SAS HD Interconnects (SFF8644).

Speeds

- ▶ 3Gb/6Gb/12Gb* data rates

Switching

Switches

- ▶ High Speed RF switches
- ▶ Low insertion loss

Switched Pins

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

Physical Dimensions

QTL1521

- ▶ Length 84.0 mm
- ▶ Width 63.5 mm
- ▶ Height 30.0 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

Triggering

- ▶ External Trigger In/Out

Glitching

Timing

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

Sequences

- ▶ Run glitches in sequences and PRBS patterns

Fault Injection

SAS Errors

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

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

QTL1521 - Standard Module
QTL1675 - Module +Triggering

Single units

- ▶ Ideal for bench testing, debugging and evaluation

Multiple units

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

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*For 12Gb, system performance should be verified before purchase