

Torridon Lite Drive Control Modules



Hot-Swap automation for SAS and SATA drives



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 Drive Control Modules:

The industry's first automated solution for hot-swap testing. Drive Modules vastly increase the speed of testing 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 integrate 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
- RAID Developers
- Storage System Integrators
- Drive Qualification Labs
- Silicon Manufacturers
- Software/Driver Designers

Torridon SAS/SATA Lite Drive Control Modules

Interface Specification

Power

- ▶ Supplied from Interface Card or Array Controller

Comms

- ▶ USART Serial - DB9
- ▶ USART Serial - RJ45(RS232D)
- ▶ USB (for firmware update only)

Switching

Switches

- ▶ High Speed FETs
- ▶ High Current, Low insertion loss

Switched Pins

- ▶ All precharge and power pins. Vendor specific pins on request

Directly Routed Pins

- ▶ SAS data

Support and Utilities

Phone and email support direct to the engineers as standard

Timing Specification

Timers

- ▶ 6 Independent timers for multi stage hot-swap

Timing resolution

- ▶ 1mS

Pin-bounce modes

- ▶ Not available on Lite control modules

Manual Mode

- ▶ Full manual connection control for fault injection and bugged hardware generation

Ordering Information

QTL1215 - 2.5" Form Factor

Single units

- ▶ Ideal for bench testing, debugging and evaluation

Multiple units

- ▶ Run from a Torridon Array Controller for synchronized testing of large disk arrays

Discounts

- ▶ Substantial volume discounts are available for Lite control modules

Physical Dimensions

QTL1215 (2.5" Module)

- ▶ 69.1mm x 15.4mm
- ▶ Drive offset by 14mm

Drive Compatibility

Sizes

- ▶ 2.5" Form Factor (also compatible with 3.5" drives)

Drive Connections

- ▶ SAS and keyed SATA options

Types

- ▶ HDD, SSD, Tape

Sales

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