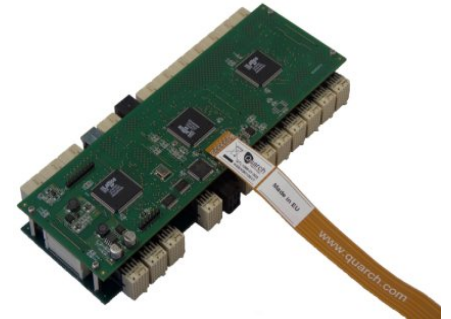


Torridon SBB Control Module



Hot-Swap automation and fault injection for SBB
Storage Enclosures



Reduce Time to Market

Cut time to market by 20% for new products by automating your 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 SBB Control Modules:

The industry's first automated solution for hot-swap testing and fault injection. SBB Modules vastly increase the speed of testing and introduce a level of repeatability that is impossible during manual tests.

Complete Automation:

Any test that requires manual intervention to pull or plug a canister can now be fully automated. Hardware faults can be injected on demand

Simple Integration:

The Torridon System works with your existing automated test setup and integrate with minimal effort. Quarch provides full support as standard during this process.

Who Can Benefit?

- Enclosure Manufacturers
- RAID Developers
- Storage System Integrators
- Drive Qualification Labs
- Silicon Manufacturers
- Software/Driver Designers

Torridon SBB Control Modules

Interface Specification

Power

- ▶ Supplied from Interface Card or Array Controller

Comms

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

Compatibility

Specifications

- ▶ SBB 2.0 (Also compatible with SBB 1.0 canisters)

The Extra SBB 2.0 connectors can be de-populated to give extra clearance if necessary for SBB 1.0 systems

Switching

Switches

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

Switched Pins

- ▶ All power pins and low speed signals (I2C bus etc, ~200 in total)

Directly Routed Pins

- ▶ SAS data

Timing Specification

Timers

- ▶ 6 Independent timers for multi stage hot-swap

Timing resolution

- ▶ 1mS

Pin-bounce resolution

- ▶ 10uS

Pin-bounce modes

- ▶ Simple duty-cycle
- ▶ User defined 100 bit pattern

Manual Mode

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

Physical Dimensions

QTL1069

- ▶ 206mm x 68mm
- ▶ Canister offset by 80mm

Support and Utilities

Phone and email support direct to the engineers as standard

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

Ordering Information

QTL1069 - SBB Control Module

Bench Testing

- ▶ Ideal for debugging and evaluation of systems
- ▶ Sold as stand alone unit, with an interface card

System Testing

- ▶ Run from a Torridon Array Controller for synchronised testing of large disk arrays
- ▶ Sold as part of a full system with a Torridon controller

Quarch Technology Ltd

UK Sales / Technical Enquiries

+44 1343 508 140

enquiries@quarch.com

US Sales Office

+1 617 245 0528

us_enquiries@quarch.com

<http://www.quarch.com>