

# Active Mini SAS HD Physical Layer Switch



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Automatically and remotely configure paths  
between 12 miniSAS HD ports

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## 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 engineering 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 Initiators and Targets, Reconfigure data paths automatically during a test.

Forward data to a scope / analyser for easy testing

### **Complete Automation:**

Any test that requires reconfiguration of SAS or SATA 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

# Torridon Active Mini SAS HD Physical Layer Switch

## Interface Specification

### Power

- ▶ Supplied with external 12VDC power supply

### Comms

- ▶ USB
- ▶ Telnet
- ▶ RS232 Serial (Via Interface Kit or Array Controller)

## Switching

### Crosspoint Switch

- ▶ Configure connections on a port or individual lane basis
- ▶ Received data can be sent to multiple ports to connect test equipment without inserting it into the signal path

### Control

- ▶ Each path may be configured by a simple terminal command or through the TestMonkey GUI

## Physical

### Dimensions

- ▶ Length 164.5 mm
- ▶ Width 165.9 mm
- ▶ Height 43.65 mm

## Ordering Information

QTL1564 - Active Mini SAS HD Switch with Torridon Interface Cable

## Ports

### Interfaces

- ▶ 12x SFF-8644 Mini SAS HD ports arranged as 6 1x2 connectors

### Speeds

- ▶ 1.5 / 3 / 6 / 12Gb/s\* SAS

## Signal Conditioning

### Signal Conditioning

- ▶ Programmable Amplitude, Equalisation and Pre-Emphasis is available on each port
- ▶ Each signal is re-driven by the module but not re-timed, resulting in high signal quality whilst preserving the timing characteristics of the original signal

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\*12Gb/s performance subject to acceptable cable quality, evaluation units available to verify performance