



## Physical Layer Switches

AUTOMATED TEST CONFIGURATION



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**Quarch.com**

Data Storage | Automotive | Telecoms | Aerospace



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## Product Range Overview

### KEY BENEFITS

Automate the re-cabling of test racks, avoiding down time and user error.

Run tests 24/7 with greatly reduced manual intervention.

Physical layer switching design does not re-time or otherwise alter the protocol later in any way, ensuring transparent connection of device and host.

Some modules support additional features such as basic hot-plug control and port forwarding.

Note: These are NOT managed switches, they cannot be used to network multiple devices together. Instead they act as if a technician had unplugged a cable and inserted it into a new device.

### 12G SAS PHYSICAL LAYER SWITCH

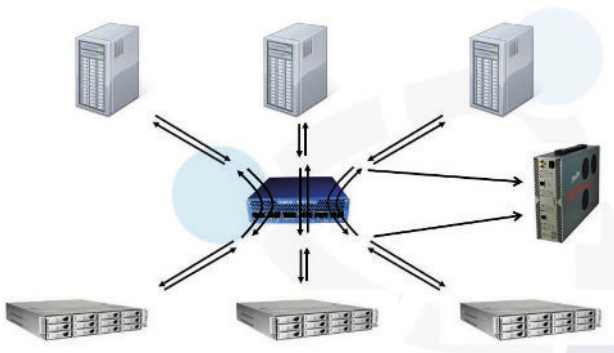


12 Ports miniSAS HD switch, supporting SAS and SATA devices

LAN and USB control for easy automation

Optional rack mount available.

## SAS/SATA Switches



Cross-point based for flexible routing.

Connect any two ports.

Connect any two lanes within a port.

Forward a port/lane to 1 or more additional points.

Loop-back a port/lane.

**SAS SWITCH:** CONNECTS UP TO 12 MINISAS HD DEVICES AT UP TO 12G SPEEDS. SUPPORTS SAS AND SATA, SUPPORTS PORT-BY-PORT AND LANE-BY-LANE SWITCHING. SUPPORTS ACTIVE, PASSIVE AND FANOUT CABLES. USB AND LAN CONTROL PORTS. DUE TO LINK TRAINING NOT PASSING THROUGH, CABLES SHOULD BE QUALIFIED AND 1M MAXIMUM IS GENERALLY RECOMMENDED.

### 4/8 PORT SATA PHYSICAL LAYER SWITCH



SATA switch with 4 host ports and 8 device ports.

Supports SATA devices up to 6G

LAN and USB control for easy automation

## SAS/SATA Switches

### SAS/SATA SWITCHES



Cross-point based for flexible routing.

Connect any device ports to any one of the host ports.

LED indication to show current connections

**SATA SWITCH:** 4 HOST PORTS AND 8 DEVICE PORTS. SUPPORTS SATA UP TO 6G SPEEDS. LAN AND USB CONTROL PORT. TORRIDON CONNECTOR TO LINK TO A TORRIDON CONTROLLER.

## 1:8 PORT USB PHYSICAL LAYER SWITCH



Automated connection between 1 host and 8 device ports.

Verify multiple different devices are compatible with your host

In active use in multiple automotive and AV customers.

## USB 3.0 Switch



Data is re-driven but not re-timed

USB and LAN ports for control

LED indication to show current connections

Supports Low Speed, Full Speed, High Speed and Super Speed devices

Individual control of USB2, USB3 and VBUS signals.

**USB SWITCH:** 1 HOST PORT AND 8 DEVICE PORTS. SUPPORTS UP TO SUPER SPEED USB 3.0 DEVICES. INDIVIDUAL ISOLATION OF USB2, USB3 AND VBUS SIGNALS USING TORRIDON BREAKER CONTROL (SWITCH, GLITCH, SEQUENCE AND PIN-BOUNCE).



