Datasheet

SAS/SATA SFP Transceivers

Features

- Dual rate 1.5/3.0 Gbps
- Full transparency to end devices
- Input signal detection
- TX disable
- Standard SAS/SATA connector

Overview

There are a number of different protocols used in the storage industry. In a storage test lab environment, flexibility and multi-protocol support is paramount to efficient operation. When dealing with the SAS/SATA protocol, cable length restraints and connector reliability compromise efficiency even further.

MRV's physical layer switch, the Media Cross Connect (MCC), addresses storage lab efficiency by providing a wire-once solution with support for Fibre Channel, iSCSI, FCoE, and now SAS/SATA in one system.

### SAS/SATA Modules Provide a Complete Wire-Once Solution

Using the MCC in a storage test lab enables lab administrators to physically connect storage equipment of various types and protocols providing greater flexibility and improved efficiency.

The MCC is initially cabled to all lab devices then software commands are used to configure and store test topologies to be recalled as needed. Test time and configuration errors are reduced, repeatability of tests like disaster or failover simulation is simplified, and expensive test equipment can be shared.

MRV developed a small form-factor pluggable (SFP) device specifically to support Serial Attached SCSI (SAS)/Serial ATA (SATA) to be used with the MCC interface blade. The SAS/SATA SFP is available in two models: the Host SFP connects to the initiator and the Drive SFP connects to the target.

The blade architecture of the MCC allows mixing different types of blades in a single system. MRV's SAS/SATA SFP provides the flexibility to support different protocols within the same blade and allows the MCC to be tailored to meet the specific needs of the testing environment.

COMPLEX MADE SIMPLE:
WIRE-ONCE AND RECONFIGURE REMOTELY
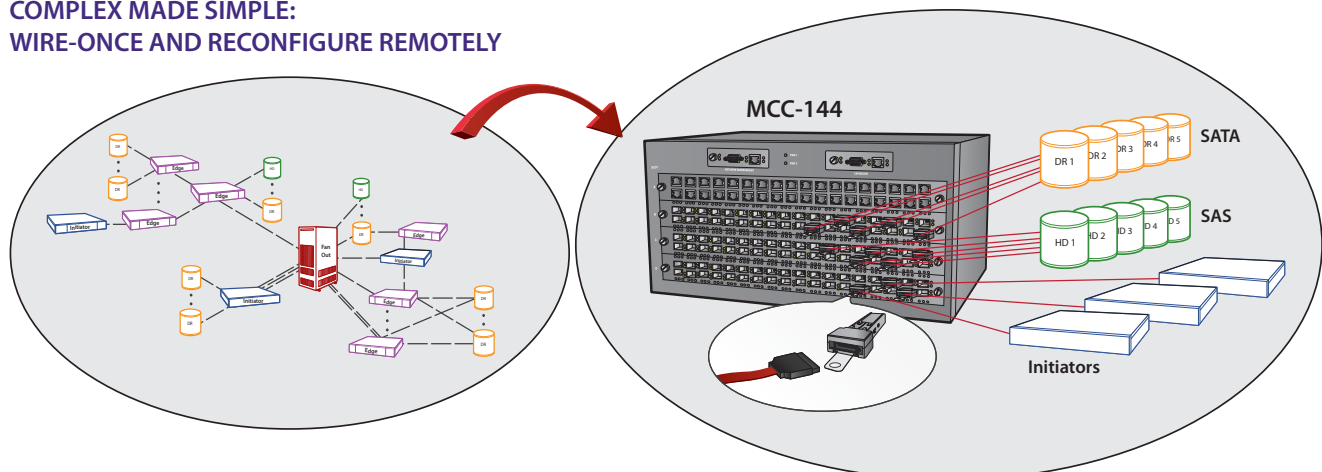
MCC Applications

Test Lab Environments:
• Configure SAS/SATA, Fibre Channel, and FCoE using the same system.
• Simplify the complexities of testing clusters, RAID, and other storage array configurations.
• Cover more corner cases in product design.
• Simulate cable breaks or intermittent links in a controlled environment.
• Increase test lab productivity and decrease time to market for new products.

Enterprise Storage Networks:
• Remotely connect a back-up disk after a failure for disk backup.
• Connect disk and host to the MCC, and for maximum security patch them together only when being used to read/write .

Ordering Information (use in pairs as shown)							
Model	Description	Protocol	Connectors	Typical Power Consumption (mWatts)	Supply Voltage (V)	Temperature Range (°C)	
SFP-SATA-SAS-HT	This SFP plugs into the EMPMC-36SFP for 1.5G and 3G SAS/SATA applications, using the MCC 2/4 slot chassis, Host side	SAS/SATA	SATA Plug	600	3.3	0 to 65	
SFP-SATA-SAS-DR	This SFP plugs into the EMPMC-36SFP for 1.5G and 3G SAS/SATA applications, using the MCC 2/4 slot chassis, Drive side	SAS/SATA	SATA Plug	600	3.3	0 to 65	

For detailed information about MRV's Media Cross Connect system, visit *www.mrv.com/tap* .

MRV has more than 50 offices throughout the world. Addresses, phone numbers and fax numbers are listed at www.mrv.com.
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