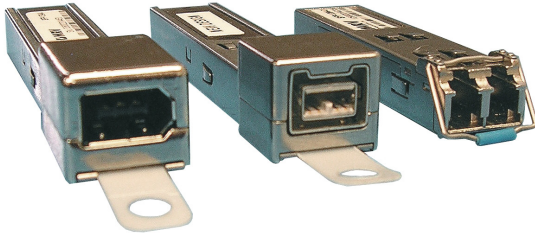


Datasheet

IEEE 1394 SFP (FireWire / i.Link)



Overview

MRV's 1394B transceivers are the first SFP devices in the industry to comply with the IEEE 1394b standard.

The SFP-1394 transceivers work at the physical network layer. Using bit-for-bit operations, they are transparent to other network devices. They support range extension, topology changes, fiber-to-copper media conversion, and a full range of data rates from 100 Mbps to 1600 Mbps.

FireWire is a "protocol of choice" for the aerospace and aviation industries, and it is widely used in aircraft subsystem inter-communication.

The SFP-1394 models provide three connector options: 6-pin, 4-pin, and LC optical. The optical model transmits up to 150 meters at a wavelength of 850 nanometers over 62.5-micron multi-mode optical fiber. The copper media is limited to the IEEE 1394 standard specifications.

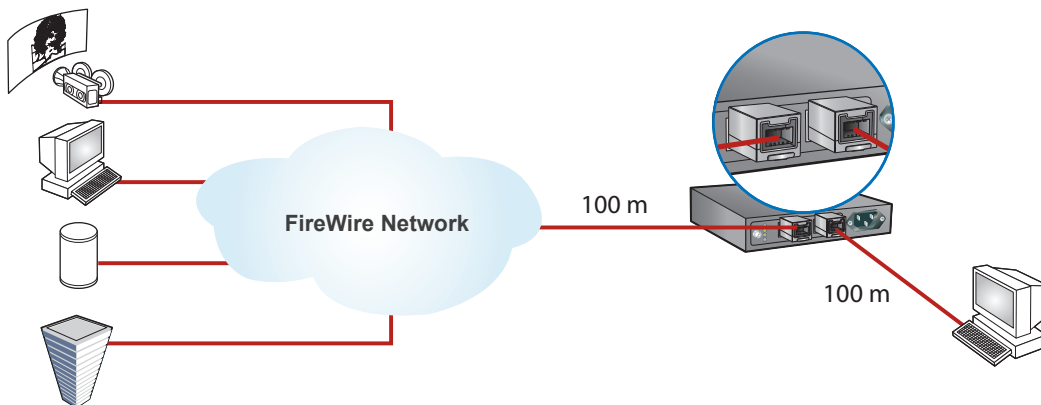
Highlights

- Data rate support:
Fiber - 100, 200, 400, 800, and 1600 Mbps
Copper - 100, 200, 400, and 800 Mbps
- Full transparency to other network nodes
- Three media connection models
- 6-pin (SFP-1394A)
- 4-pin (SFP-1394B)
- LC optical (SFP-FO-1394B)
- IEEE 1394b standard compliance
- MRV Media Cross Connect compatibility

Benefits

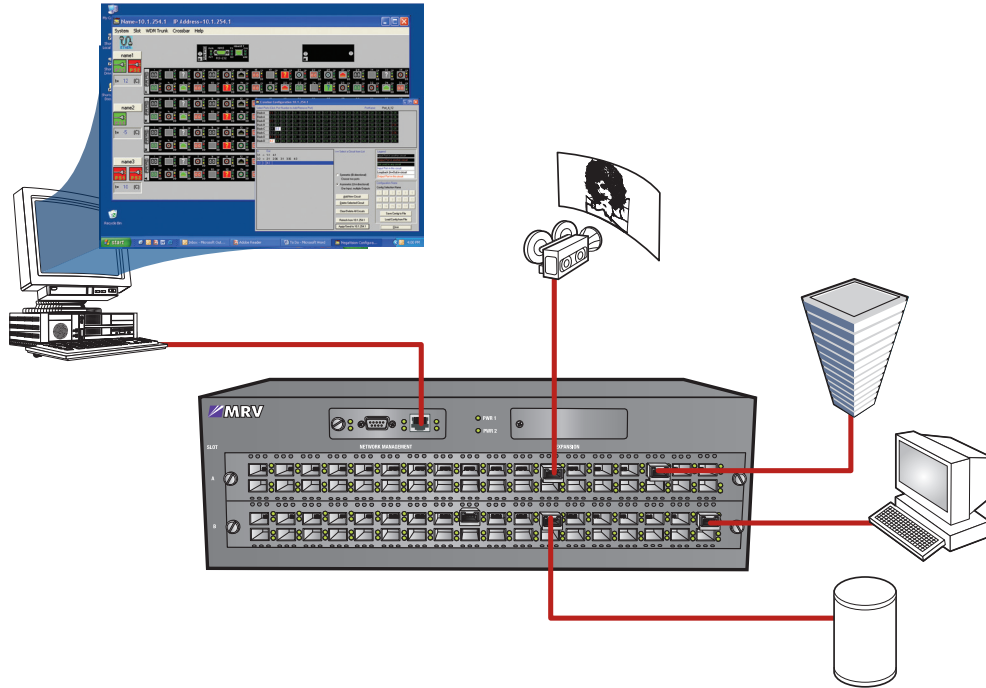
- Doubles the physical reach of FireWire and i.Link networks when used in a repeater configuration
- Works with the MCC (Media Cross Connect) to simplify remote network topology changes for test automation
- Allows the use of mixed fiber optic and copper infrastructures when used as a fiber-to-copper media converter

Application A: Double the Network Reach

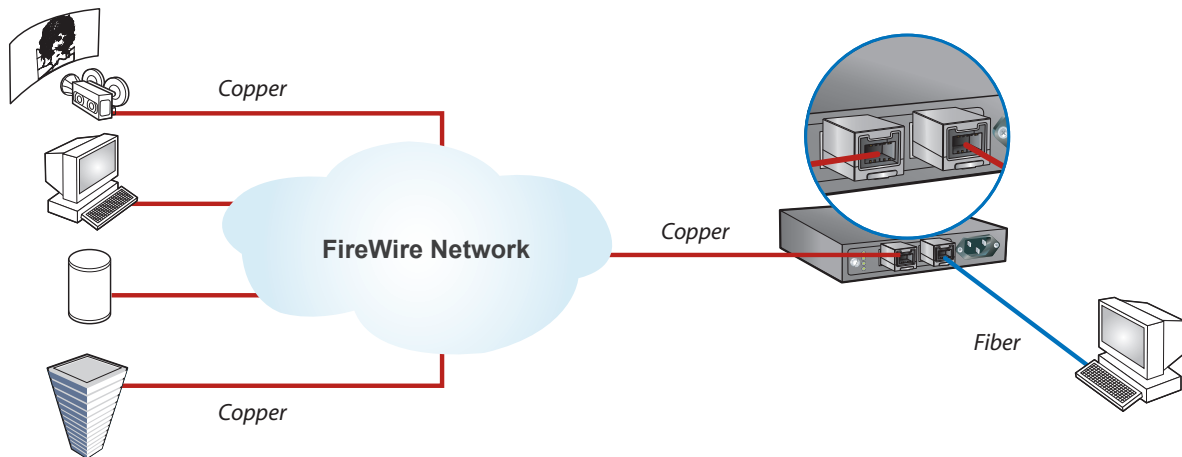


Datasheet

Application B: Remote Topology Changes for Better Automation



Application C: Mixed Copper/Fiber Infrastructures



Datasheet

Ordering Information: Copper

Model	Description	Data Rate (Mbps)	Connectors	Supply Voltage (V)	Temperature Range (°C)
SFP-1394A	FireWire Copper SFP	100 -800	FireWire type A (6-pin)	3.3	-5 to 70
SFP-1394B	FireWire Copper SFP	100 -800	FireWire type A (4-pin)	3.3	-5 to 70

Ordering Information: Fiber-Optics

Model	Description	Data Rate (Mbps)	Connectors	Wavelength		Output Power (dBm)		Min. Receiver Sensitivity (dBm)	Saturation (dBm)	Min. Link Budget (dB)	Supply Voltage (V)	Temperature Range (°C)	Maximum Distance (m)
				Tx	Rx	Min	Max						
SFP-FO-1394B	FireWire Fiber SFP	100 - 1600	LC	850	850	-10	-5	-18	0	9	3.3	-5 to 70	100
SFP-FO5-1394B	FireWire Fiber SFP	100 - 1600	LC	850	850	-10	-5	-18	0	9	3.3	-5 to 70	500

Regulatory and Industry Compliances

Class 1 Laser optical SFPs comply with EN 60825-1: 2007 and 21 CFR 1040.10 except for deviations pursuant to Laser Notice No. 50 dated June 24, 2007
 Certified by one or more of the following agencies: TÜV, UL, CSA
 RoHS Directive; China RoHS; California RoHS Law, REACH Directive SVHC; WEEE Directive
 The Quality Management System is certified to ISO 9001 by QMI-SAI Global
 The Environmental Management System is in compliance with ISO 14001

Warnings

Handling Precautions: This device is susceptible to damage as a result of electrostatic discharge (ESD). A static free environment is highly recommended. Follow guidelines according to proper ESD procedures.

Laser Safety: Radiation emitted by laser devices can be dangerous to human eyes. Avoid eye exposure to direct or indirect radiation.

MRV has more than 50 offices throughout the world. Addresses, phone numbers and fax numbers are listed at www.mrv.com. Please e-mail us at info@mrv.com or call us for assistance.

MRV Los Angeles
 20415 Nordhoff Street
 Chatsworth, CA 91311
 800-338-5316
 818-773-0900

MRV Boston
 300 Apollo Drive
 Chelmsford, MA 01824
 800-338-5316
 978-674-6800

MRV International
 Business Park Moerfelden
 Waldeckerstrasse 13
 64546 Moerfelden-Walldorf
 Germany
 Tel. (49) 6105/2070
 Fax (49) 6105/207-100

All statements, technical information and recommendations related to the products herein are based upon information believed to be reliable or accurate. However, the accuracy or completeness thereof is not guaranteed, and no responsibility is assumed for any inaccuracies. Please contact MRV Communications for more information. MRV Communications and the MRV Communications logo are trademarks of MRV Communications, Inc. Other trademarks are the property of their respective holders.