

IEEE 1394 SFP (FireWire / i.Link)



Overview

MRV announces the first IEEE 1394b standard compliant SFP devices in the industry.

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.

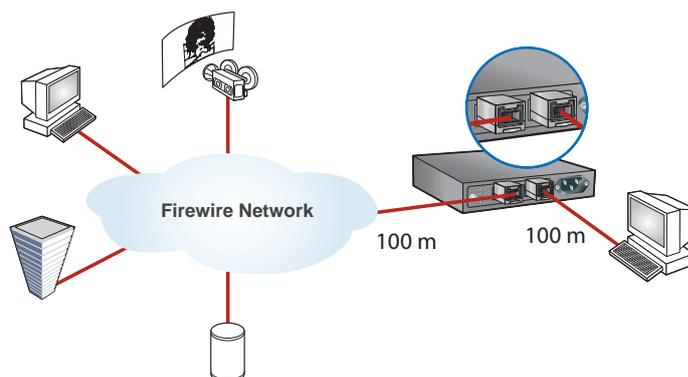
Features and Benefits

- 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 and Fiber Driver compatibility
- RoHS Directive: RoHS-5 compliant

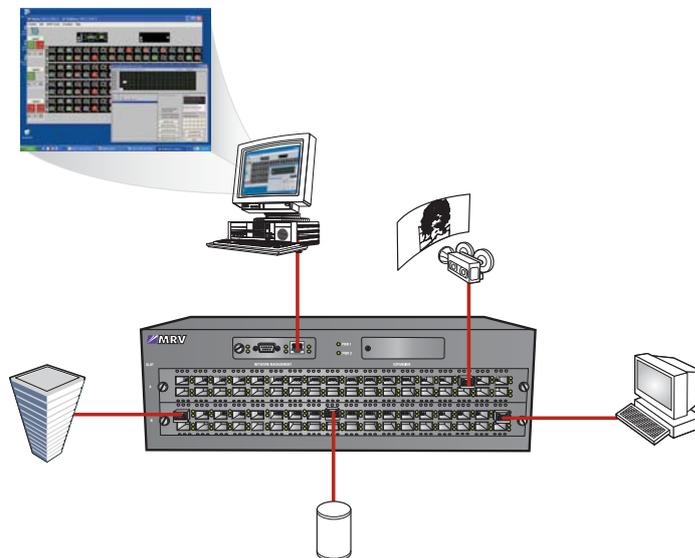
Advantages

- 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.

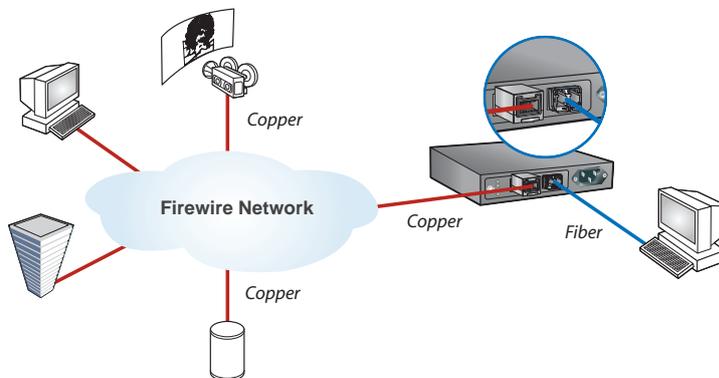
Application A: Double the Network Reach



Application B: Remote Topology Changes for Better Automation



Application C: Mixed Copper/Fiber Infrastructures



Ordering Information

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 B (4-pin)	3.3	-5 to 70



Datasheet

Ordering Information

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)	Min Range (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

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 sales@mrv.com or call us for assistance.

MRV (West Coast USA)
20415 Nordhoff St.
Chatsworth, CA 91311
800-338-5316
818-773-0900

MRV (East Coast USA)
295 Foster St.
Littleton, MA 01460
800-338-5316
978-952-4700

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

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