IEEE-1394b SFP

IEEE-1394b Copper/Optical SFP Transceiver

Applications

Reconfiguration of IEEE-1394b nodes within Software, Hardware, and Vehicle Integration Labs

Extend 1394 cable length without additional 1394 nodes

Long distance test stand to test stand connectivity

Benefits

Copper SFPs double the physical reach of IEEE-1394 (FireWire) networks when used in repeater configuration

Works with the MCC (Media Cross Connect) to simplify remote network topology changes for test/simulation automation

Allows the use of mixed copper and fiber optic infrastructures when used as fiber-to-copper media converter

Non-instrusive (no additional 1394 node) extension of 1394 cable length

Features

Data rate support:

- Copper: S100β, S200β, S400β and S800β
- Fiber: S100β, S200β, S400β, S800β and S1600β

Full transparency to other network nodes

Two media connection models:

- 9-pin (FW-SFP-1394B)
- LC optical (FW-SFP-FO-1394B)

IEEE-1394b (beta) standard compliant

MRV 72 and 144 Media Cross Connect and Fiber Driver Compatibility

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Overview

The New Wave DV small form-factor pluggable (SFP) IEEE-1394b transceivers work at the physical network layer using bit-for-bit operations.

These copper and optical transceiver modules provide a cost effective connection of IEEE-1394b (beta) devices to MRV 72 and 144 Media Cross Connect (MCC) switch. Used and trusted for years, our SFP modules are the industry standard for IEEE-1394b connectivity.

The SFP-1394 are logically transparent (they don't appear as nodes on the 1394 bus) to other network devices. When coupled with a MRV MCC system the SFP-1394 support: Range extension; Topology changes; And fiber-to-copper media conversion.

The FW-SFP-1394B copper transceivers provide IEEE-1394b connectivity through a 9-pin Beta connector. The copper SFPs support S100β, S200β, S400β and S800β.

The FW-SFP-FO-1394B fiber optic transceivers provide IEEE-1394b connective through an LC connector. The optical SFPs transmit up to 150 meters using a wavelength of 850 nanometers over 62.5-micron multi-mode optical fiber. The fiber optic transceivers support S100β to S800β, and additionally S1600β rates as well.

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Complete Product Support Program

As our customers can attest, the New Wave DV team prides itself on excellent customer support. New Wave DV provides industry standard warranties on its products, but it is the human factor that makes our support so valuable to our customers. Our team takes the time and effort to ensure that the customer experience with our products is a positive one.

Our Commitment

New Wave DV is committed to providing the latest innovations in technology, architectures, and techniques to keep our customers one step ahead of the rest. Our products are intended to offer our customers an entirely unique out-of-the-box experience.

Ordering Information

Copper: FW-SFP-1394B
Fiber Optic: FW-SFP-FO-1394B

Technical Specifications

CONNECTOR TYPES
FW-SFP-1394b: 9-pin IEEE-1394 Beta
FW-SFP-FO-1394b: LC optical

SUPPORTED DATA RATES
FW-SFP-1394b: S100β to S800β
FW-SFP-FO-1394b: S100β to S1600β

CABLE DISTANCE
FW-SFP-1394b: 4.5M
FW-SFP-FO-1394b: 150M

FIBRE OPTIC TYPE
850 nanometer wavelength over 62.5 micron multi-mode optic fiber

INTEROPERABILITY
Works with MRV 72 and 144 Media Cross Connect

COMPLIANCE
SFP form factor
IEEE-1394 beta signaling levels

TEMPERATURE
Operating: 0°C to 70°C
Storage: -45°C to 85°C

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