

IEEE-1394b SFP

IEEE-1394b Copper/Optical SFP Transceiver

Applications

Reconfiguration of IEEE-1394b connections via software for Vehicle System Integration Labs and Mission-System Integration Labs

Extend 1394 cable length without additional 1394 nodes

Long distance test stand to test stand connectivity

Benefits

Works with the Media Cross Connect (MCC) from MRV and Lepton ColdFusion L1 switches to simplify remote network topology changes for test/simulation automation

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

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

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

LEMO connectors feature latching vs. friction-fit connection

Features

Data rate support:

- S100 β , S200 β , S400 β , S800 β

Full transparency to other network nodes

Four media connection models:

- 9-pin (FW-SFP-1394B, FW-SFP-1394B-L)
- LC optical (FW-SFP-FO-1394B)
- 6-pin (FW-SFP-1394B-6PIN)
- LEMO (FW-SFP-1394B-LEMO)

IEEE-1394b (beta) standard compliant

MRV 72 and 144 Media Cross Connect and Fiber Driver Compatibility

Lepton L1 Switch Compatible

- Supports ganged SFP configurations

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, 144 Media Cross Connect (MCC), and Lepton ColdFusion L1 switches. Used and trusted for years, our SFP modules are the industry standard for IEEE-1394b connectivity.

The SFP-1394 are logically transparent (they do not appear as nodes on the 1394 bus) to other network devices. When coupled with a Layer 1 switch the SFP-1394 support: Range extension; Topology changes; and fiber-to-copper media conversion.

The FW-SFP-1394B and FW-SFP-1394B-L, the FW-SFP-1394B-6PIN, and FW-SFP-1394B-LEMO copper transceivers provide IEEE-1394b connectivity through a 9-pin, 6-pin, or LEMO connector. These copper SFPs support S100 β , S200 β , S400 β , S800 β .

The FW-SFP-FO-1394B fiber optic transceivers provide IEEE-1394b connectivity 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 S100 β , S200 β , S400 β , S800 β .



From Left-to-Right: 9-pin (FW-SFP-1394B), 9-pin (FW-SFP-1394B-L), LEMO (FW-SFP-1394B-LEMO), LC optical (FW-SFP-FO-1394B). In development, not pictured: 6-pin (FW-SFP-1394B-6PIN).

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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

FW-SFP-1394B: Standard Copper 9-pin
 FW-SFP-1394B-L: Long-Length Copper 9-pin
 FW-SFP-FO-1394B: Standard Fiber Optic
 FW-SFP-1394B-6PIN: Standard Copper 6-pin
 FW-SFP-1394B-LEMO: Standard Copper LEMO

Technical Specifications

CONNECTOR TYPES

FW-SFP-1394b: IEEE-1394 9-pin Beta
 FW-SFP-1394B-L: IEEE-1394 9-pin Beta
 FW-SFP-FO-1394b: LC optical
 FW-SFP-1394B-6PIN: IEEE-1394 6-pin
 FW-SFP-1394B-LEMO: LEMO Series B 4-Pin Socket

SUPPORTED DATA RATES

S100β
 S200β
 S400β
 S800β

CABLE DISTANCE

Copper: 4.5M
 Optical: 150M

FIBRE OPTIC TYPE

850 nanometer wavelength over 62.5 micron multi-mode optic fiber

INTEROPERABILITY

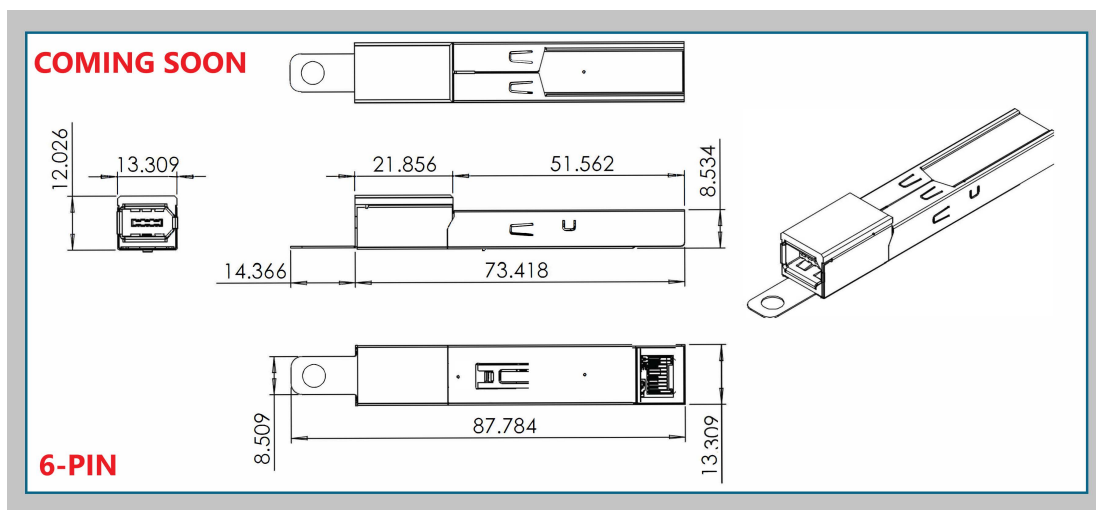
Works with MRV 72, 144 Media Cross Connect, Lepton ColdFusion L1

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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