

Mil1394 Dual Quad-Port Repeater Hub

2x 4-Port Transformer-Coupled 1394b Hub

Applications

- Extend cable distances in laboratory and flight test applications
- Isolate expensive 1394 test equipment from modules during environmental and EMI testing
- Enable connection of four devices directly into a single hub

Benefits

- Consolidation of two 4-port hubs into a single 1U 19 inch rack mount chassis
- Mil1394 active transformer-coupled ports allows for longer cable lengths
- 4-Port hub allows direct connection of up to four devices

Features

- Two bus (Channel) each with four Mil1394 and IEEE-1394-2008 compliant ports
- Four Beta only ports (eight total) per hub supporting:
 - S100 β (122.88Mb/s)
 - S200 β (245.76Mb/s)
 - S400 β (491.52Mb/s)
- Configurable maximum connection speeds of:
 - S200 β
 - S400 β
- Standard 9-pin IEEE-1394b connectors for each port
- Activity LEDs for each hub to indication bus traffic is present
- Implemented using Texas Instrument's TSB41BA3 PHY Layer IC

Overview

The FW-MIL-2X4HUB19-400T-2 (Repeater) is a dual quad-port, transformer-coupled S200 and S400 capable repeater/hub with 9-pin IEEE-1394b connectors. Each quad-port hub shows up as two nodes on the 1394 bus. All ports are beta-only active transformer-coupled to drive AS5643/1 defined cable lengths.

The 1U 19 inch rack mount form factor Repeater provides both a cost and space efficient solution. The front of the Hub has two sets of four (4) beta ports labeled IN 1, OUT 1, OUT 2, OUT 3 and IN 2, OUT 4, OUT 5, OUT 6. While all 1394 ports are inherently bi-directional and can be treated as such, the IN/OUT nomenclature can be used to indicate protocol level directional message traffic.

The Activity LED turns on whenever the Hub detects 1394 bus packet activity. Additionally, the Hub has a power on/off switch located on the right-end of the front panel.

The Repeater is powered from a single 100-240 VAC connection.

Port connection mode configuration switches are provided to allow maximum port speed settings of S200 β or S400 β .



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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-MIL-2X4HUB19-400T-2: MIL1394 Hubs (2x 4 Hub) 19-inch rackmount with active transformers, max port speed S400

FW-MIL-2X4HUB19-400T-2-S200: MIL1394 Hubs (2x 4 Hub) 19-inch rackmount with active transformers, max port speed S200

FW-MIL-2X4HUB19-400T-2-S100: MIL1394 Hubs (2x 4 Hub) 19-inch rackmount with active transformers, max port speed S100

Technical Specifications

INTERFACES

Two sets of four IEEE-1394 Beta (1394b) Ports

DATA RATES

S200 β and S400 β

POWER REQUIREMENTS

100 to 240 VAC

COMPLIANCE

IEEE-1394b Compliant Physical Layer
AS5643/1 Compliant transformer isolation

DIMENSIONS

17¹ x 8 x 1.73 inches

TEMPERATURE

Operating: 0°C to 70°C

Storage: -40°C to 85°C

¹19 inches including brackets

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