SONY

NXL-FR316

SDI-IP signal processing unit

Overview

The NXL-FR316 is a 3RU-sized rack-mountable frame that provides the power supply for optional boards.

Rack mountable frame for various SDI-IP option boards — NXLK-IP50Y, NXLK-IP51Y, etc.

The NXL-FR316 is a 3RU rack-mountable frame capable of holding up to 16 option boards. With two power supplies to provide redundancy, the unit is ideal for interconnecting SDI equipment with IP-based infrastructure.

16 Flexible Slots For SDI-IP Conversion Option Boards

With 16 open slots,* the NXL-FR316 signal processing unit enables flexible loading and combination of optional NXLKIP40F or NXLK-IP45F boards. This means you can configure the system to fit your precise requirements.

NXLK-IP50Y, one of option boards, supports both 4K and HD video signals. Equipped with 8x 1.5/3G-SDI I/O ports, it can convert signals from SDI to IP and from IP to SDI. As standard, it supports SDI-IP conversion with frame synchronization. This can be optionally expanded to up/down conversion and SDR/HDR conversion.

NXLK-IP51Y—12G SDI-IP Converter Board—offers two 1.5/3G-SDI

bi-directional and two 12G-SDI x2 bi-directional ports, plus dual SFP28 (25-Gb Ethernet) ports for network connection redundancy. Compatible with ST 2110-20/30/40 streaming formats and offering very low latency signal conversion, it's ideal for integration in real-time IP Live production environments.

NXLK-IP40F, supports 4K/HD signals for SDI-to-IP and IP-to-SDI conversions.

NXLK-IP45F enables audio signal to be transmitted via IP as well. Status LEDs on the front panel of the unit allow real-time monitoring, with reference input, and reference time input and output status provided.

*When used with the optional XLK-IP50Y or NXLK-IP51Y, available slots on NXL-FR316 are reduced to 12.

*1 For more details on the JT-NM Tested program in March 2020 and test results, please go to https://jt-nm.org/jt-nm_tested.

Specifications

General specifications	
Power supply	AC 100 V to 240 V +/–10% 50/60 Hz, dual
Power consumption	800 W
Dimensions	17 3/8 × 5 1/4 × 17 3/8 in (440 x 132 x 440 mm) (W × H × D)
Mass	Approx. 30 lb 14 oz (12 kg)
	Operation guaranteed

Temperature ranges	temperature: 5 °C to 40 °C (41 °F to 104 °F) Performance guaranteed temperature: 10 °C to 35 °C (50 °F to 95 °F) Storage temperature: –20 °C to +60 °C (–4 °F to +140 °F)

I/O specifications - REFERENCE IN

Connector	BNC type (2), loop through 75 Ω
Number of lines	1 (loop through)
Signal formats	HD tri-level sync signal, black burst signal, SYNC signal

I/O specifications - STATUS OUT

Connector	D-sub 15-pin (female)
Signal formats	Open collector

I/O specifications - NETWORK

Connector	RJ-45
Number of lines	1
Signal formats	Ethernet 100Base-TX compliant

I/O specifications - AUX-IN

Connector	BNC type (1)

Supplied accessories

Supplied accessories	Operation manual (1)

Optional accessories

Optional accessories	RMM-10 rack mount bracket Power cord (Service Parts No.: 1-557-377-11 (USA, Canada), 1-782-929-22 (EU))

Related products

PWA-LEO1 [Live Element Orchestrator]

System orchestration and management software for IP Live production.

PWS-110NM1

IP Live System Manager Station

OTM-25GLR

SFP28 Optical Transceiver Module (LR)

NXLK-IP50Y

SDI-IP Converter Board with eight 1.5/3G-SDI ports, supporting SMPTE ST 2110 in HD/4K and HDR

OTM-10GSR1

10GBASE-SR SFP+ Transceiver for Sony Networked Media Interface products

NXLK-IP51Y

12G SDI-IP Converter Board with two 1.5/3G-SDI and two 12G-SDI ports, supporting SMPTE ST 2110 in HD/4K and HDR

NXLK-IP40F

SDI-IP converter board with 3G-SDI and SFP+ ports

NXLK-IP45F

AV Multiplexer/Demultiplexer Board

PWSK-4506F

Networked Media Interface Board for PWS-4500 Live Server

OTM-25GSR

SFP28 Optical Transceiver Module (SR)

Gallery