

## NXL-FR316

SDI-IP signal processing unit



**NETWORKED LIVE**

### Overview

The NXL-FR316 is a 3RU-sized rack-mountable frame which 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 synchronisation. 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 (25Gb 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](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	440 x 132 x 440 mm (17 3/8 × 5 1/4 × 17 3/8 in.) (W × H × D)
Mass	Approx. 12 kg (30 lb. 14 oz.)
	Operation guaranteed

Temperature ranges	<p>temperature: 5 °C to 40 °C (41 °F to 104 °F)</p> <p>Performance guaranteed temperature: 10 °C to 35 °C (50 °F to 95 °F)</p> <p>Storage temperature: -20 °C to +60 °C (-4 °F to +140 °F)</p>
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## 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)
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## Supplied accessories

Supplied accessories	Operation manual (1)
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## 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))
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### Related products



**PWA-LE01**  
**[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



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## **OTM-10GSR1**

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



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## **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



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## **NXLK-IP40F**

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



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## **NXLK-IP45F**

AV Multiplexer/Demultiplexer Board



## **PWSK-4506F**

Networked Media Interface Board for PWS-4500 Live Server



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## **OTM-25GSR**

SFP28 Optical Transceiver Module (SR)

## Gallery

