

## Flashlink

3GHD-OE-2-SFP

# Dual 3G-SDI optical to electrical converter

### **The Flashlink 3GHD-OE-2-SFP is a dual SFP based multi bit-rate optical to electrical converter module.**

It provides high performance media conversion supporting 3G-, HD- and SD-SDI signal formats in addition to DVB-ASI, SMPTE310M and MADI. The modular design with the ability to quickly replace a whole unit with its optical modules attached makes the 3GHD-OE-2-SFP the first choice for mission critical applications.

The converter is utilizing pluggable SFP devices, enabling easy exchange or upgrade of optical ports and minimizing spare stock. High quality optical PIN and APD receivers makes the product suitable for short and medium/ long haul applications.

The units two optical converters has three electrical outputs each, which reduces the need for additional distribution amplifiers. The product also features an automatic change-over function between the two optical inputs.

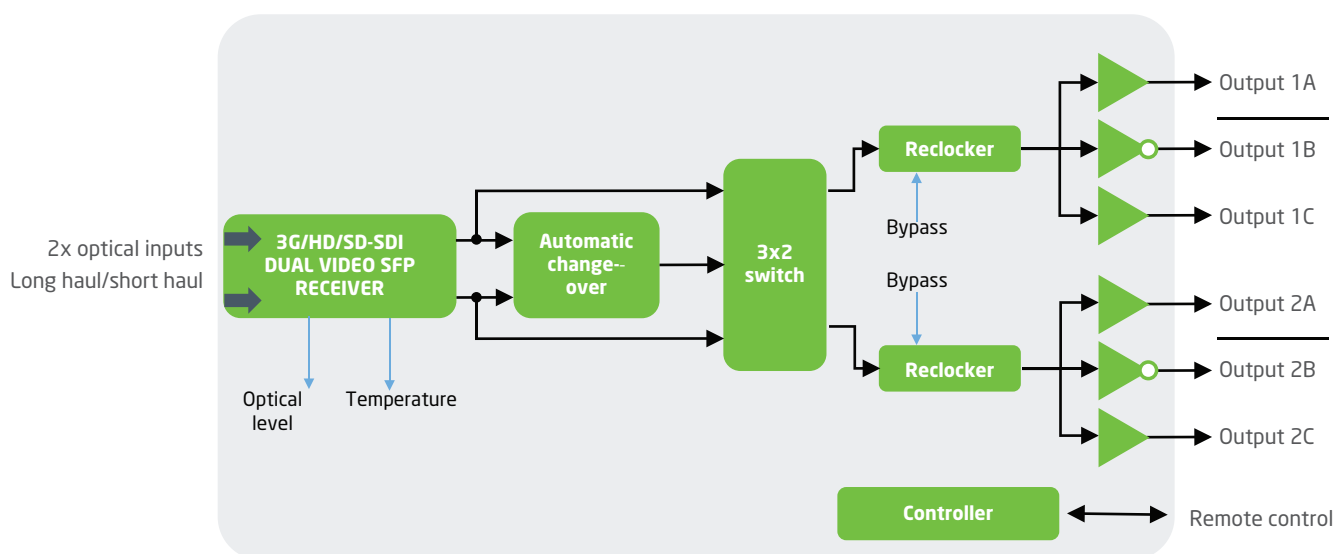
3GHD-OE-2-SFP complements the extensive range of Flashlink optical transport products covering video, audio and data signals, strengthening Flashlink reputation as the number one optical transport platform for broadcasters and network operators.

### **Applications**

- Optical video networks
- Dark fiber contribution
- Campus networks
- CWDM and DWDM

### **Key features**

- Dual optical input
- Better than -30dBm optical sensitivity
- 1200 - 1620nm optical window
- Automatic change-over on inputs
- 2x2 input switch
- 3GH/HD/SD-SI and DVB-ASI re-clocker
- Optical level measurement
- Temperature measurement



## Product description

The Flashlink 3GHD-OE-2-SFP is an SFP based dual channel multi bit-rate optical to electrical converter module providing high performance media conversion for various signal formats from 19.4Mbps up to 2970Mbps. It can transport all HD and SD signal formats in addition to DVB-ASI and SMPTE 310M and it performs optical refreshing and signal re-clocking.

3GHD-OE-2-SFP can monitor both the optical level and the temperature both measured in the SFP. These measurements are presented in the Web interface and through SNMP provided by Multicon Gyda.

The SFPs to be used with the unit is Nevision's optical video SFPs, which are high quality devices that are designed and tested to meet the SMPTE specifications for optical transport of video without penalty for pathological signal patterns.

The unit also features an automatic changeover between the inputs followed by an 3x2 switch. This allows the user to use the change-over for one set of outputs, while monitoring the back-up signal on the other set of outputs. There are in total 6 outputs.

The module is monitored and controlled over RS422 by the element manager Multicon Gyda, enabling SNMP support and a Web interface. The module can also be controlled through DIP switches on the card, and 4 LEDs will indicate the status of the module. At its rear connector panel the module holds a GPI connector for card status and signal alarms.

## Specifications

### General

Power 5VDC	3.5W max
Control and monitoring	DIP configuration, SNMP and Web interface
Temperature range	0 to +40°C

### Supported standards

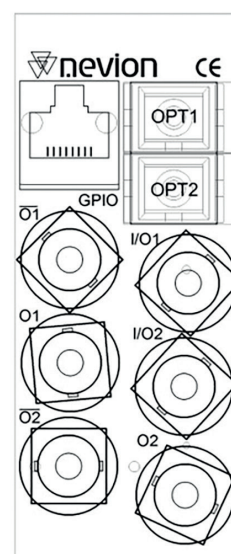
SMPTE292M, SMPTE259M, SMPTE297M, SMPTE305.2M, SMPTE310M, SMPTE424M, DVB-ASI EN50083-9

### Optical input

Number of inputs	2
Connector	SC/UPC
Optical performance	See datasheet for SFP

### Electrical output

Number of outputs	6 (3 per converter)
Connector	BNC 75 Ohm
Return loss	>15dB@ 5-1485MHz >10dB@ 1485-2970MHz
Amplitude	800mV +/-10%
Polarity	2 non-inverting, 1 inverting per converter



Connector module for  
3GHD-OE-2-SFP

## Ordering options

22711	Dual 3G/HD/SD-SDI optical to electrical SFP based converter with SC/UPC connectors supporting Long haul receivers.
3GHD-OE-2-SFP	The card features a 2x2 input switch, 1x3 electrical DA per input and SNMP /Web interfacing thru Multicon. SFP not included.

See Nevision Web page for applicable optical video SFPs.



## CONTACT INFORMATION

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### The Americas

ussales@nevron.com +1 (805) 247-8560

### Asia Pacific

asiasales@nevron.com +65 6872 9361

### Europe and Africa

sales@nevron.com +47 33 48 99 99 / +47 22 88 97 50

### Middle East

middle-east@nevron.com +971 (0)4 3901018

### UK

uksales@nevron.com +44 118 9735831

**nevron.com**