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Flashlink

3GHD-EO-2-SFP

Dual 3G-SDI electrical to optical converter

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

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

The converter is utilizing SFPs that are pluggable devices, enabling easy exchange or upgrade of optical ports and minimizing spare stock. The transmitters supports all 18 channels of CWDM and standard 13T, making the product suitable for short and medium/ long haul applications. Optical standards compliance allows for easy inter-operability with third party fiber optical systems.
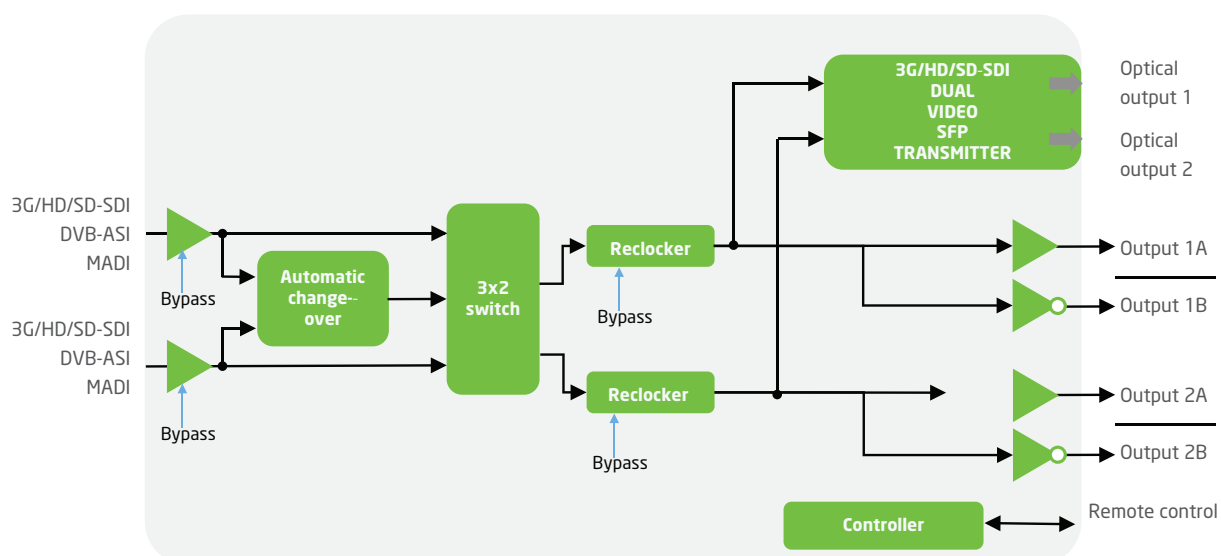
3GHD-EO-2-SFP complements the extensive range of Flashlink optical transport products covering video, audio and data signals, strengthening Flashlink reputation as the number one optical transport platform for broadcasters and network operators.

Applications

- Dark fiber networks
- Optical video transport
- Broadcast contribution networks
- CWDM

Key features

- Dual optical output
- Dual electrical input
- Support 18 channel of CWDM
- 2x2 input switch with ACO
- 3G/HD/SD-SDI and DVB-ASI reclocker
- 1x2 electrical DA per input
- Temperature measurement

Product description

The Flashlink 3GHD-EO-2-SFP is an SFP based dual channel multi bit-rate electrical to optical 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-EO-2-SFP monitor the temperature measured in the SFP and present this in the Web interface and through SNMP provided by Multicon Gyda.

The SFPs to be used with the unit is Nevion'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 patters.

The unit also features an automatic changeover between the inputs followed by an x2 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. It also allows to duplicate one input to all electrical and optical outputs. There are in total 4 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	3.5W/5V
User interface	Status LED, Status GPI, configuration DIP switches
Temperature range	0 to +40°C

Supported standards

SMPTE 259M, SMPTE 292, SMPTE 424M, SMPTE 310M, SMPTE 297, EN50083-9

Optical output

Number of outputs	2
Connector	SC/UPC
Optical performance	Nevion's Dual Optical Video Transmitter SFP range

Electrical input

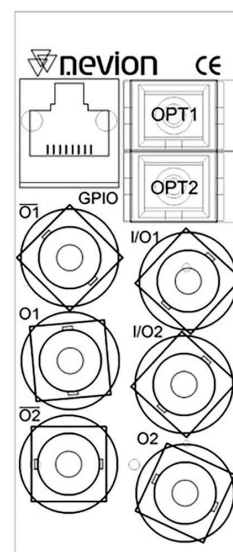|	
Number of inputs	2
Signal type	3G-SDI, HD-SDI, SD-SDI, DVB-ASI 19.4Mbps – 2970Mbps
Cable equalization	Automatic 70m @ 3G-SDI w/ Belden 1694A 100m @ HD-SDI w/ Belden 1694A 300m @ SD-SDI w/ Belden 8281
Connector	BNC, 75 Ohm

Electrical output

Number of outputs	4 (2 per converter)
Polarity	2 non-inverting, 2 inverting
Amplitude	800mV +/-10%
Connector	BNC, 75 Ohm

Connector module for
3GHD-OE-2-SFP

Ordering option

22710 3GHD-EO-2-SFP	Dual 3G/HD/SD-SDI electrical to optical SFP based converter with SC/UPC connectors supporting CWDM. In addition to optical outputs the card features 1x2 electrical DA per input and SNMP /Web interfacing thru Multicon. SFP not included.

See Nevion Web page for applicable optical video SFPs.

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