

## FLASHLINK

3GHD-EO-D15xx

# 3GHD electrical to optical DWDM converter

**The Flashlink 3GHD-EO-D15xx.xx is a single multi bit-rate electrical to optical converter module providing high performance media conversion for various signal formats from 19.4Mbps up to 2970Mbps.**

Unmatched signal accuracy, even in critical applications with pathological signal patterns makes the 3GHD-EO-D15xx.xx first choice for all optical transport demands.

The 3GHD-EO-D15xx.xx can transport all HD and SD signal formats in addition to DVB-ASI and SMPTE310M. It performs electrical equalizing and signal re-clocking, which is selectable on application. High quality optical transmitters using narrowband temperature stabilized +5dBm DWDM DFB lasers. 3GHD-EO-D15xx.xx is suitable for medium and long haul applications. The open system platform of Nevision Flashlink system allows easy interoperability with third party fiber optical systems.

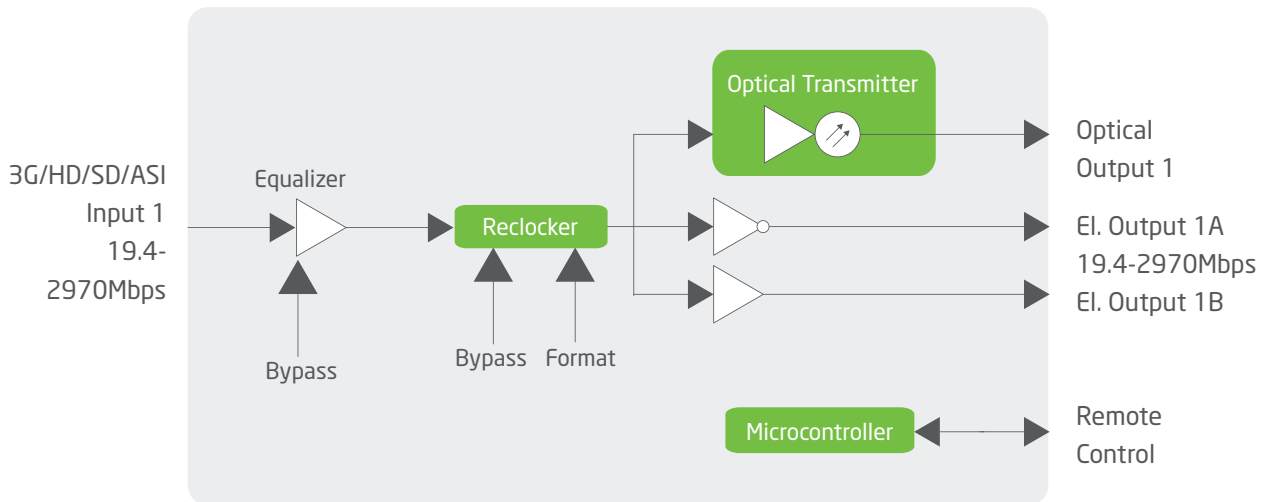
The 3GHD-EO-D15xx.xx unit has also two electrical outputs, which reduces the need for additional DA's. The electrical input is equipped with a multi rate cable equalizer providing an equalization of typically 75m of high quality coax cable at 2970Mbps.

### Applications

- Long haul video transport
- Optical networks
- Video contribution
- Dark fiber networks

### Key features

- +5dBm laser for extended reach
- Automatic input equalization
- Automatic reclocking of all video signals including DVB-ASI
- Automatic reclocker bypass of non-video signals



3GHD-EO-D15xx

## General

Power	+5V DC / 3.5W, +15V DC / 1.5W
Control system for access to setup and module status with BITE (Built-In Test Equip.)	

## Supported standards

SD-SDI, 270Mbps	SMPTE 259M, SMPTE 305.2M
HD-SDI, 1485Mbps	SMPTE 292M
3G-SDI, 2999Mbps	SMPTE 424M
ATSC	SMPTE 310M
Fiber transmission	SMPTE 297M
DVB-ASI	EN50083-9

## Electrical inputs

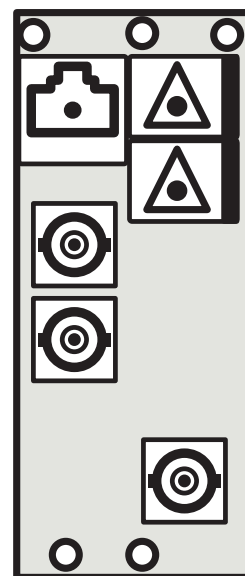
Data rate NRC	19.4 to 2970 Mbps
Data rate re-clocked	270, 1483.5, 1485, 2967 and 2970 Mbps
Equalization	Automatic, Cable equalizer and reclocker can be bypassed to support bitrates down to 2Mbps
Impedance	75 Ohm
Return loss	>15dB @ 0 – 1500MHz >10dB @ 1500 – 3000MHz
Signal level	Nom. 800mV
Connector	BNC

## Electrical outputs

Number of outputs	2
Connector	BNC
Impedance	75 Ohm
Return loss	>15dB @ 0 – 1500MHz >10dB @ 1500 – 3000MHz
Jitter max	Max. 0.2UI
Peak to peak signal level	0.8V ± 0.1V
Signal polarity	- 1 non-inverting - 1 inverting

## Optical outputs

Transmission circuit fiber	Single mode 9/125um
Light source	DWDM DFB Laser
Optical power	+5dBm
Optical center wavelength	According to ITU-T G.694.1 for DWDM
Max number of channels per fiber	40 within the C-band for DWDM
Channel spacing	100GHz
Max. wavelength drift	± 0.16nm DWDM
Temperature range	0 to +40 °C
Jitter (UI=Unit Interval)	0.135 UI max. @ 270Mbps 0.2 UI max. @ 1485Mbps 0.2UI typ. @ 2970Mbps
Connector return loss	>40dB w/SM fiber
Maximum reflected power	4%
Connector	SC/UPC



Rear connector



## CONTACT INFORMATION

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