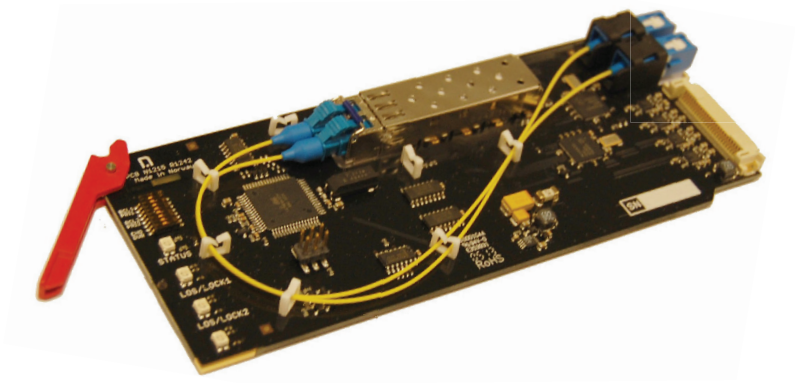
Datasheet



FLASHLINK

3GHD-OE-L-2-SFP

Dual 3G/HD/SD-SDI optical to electrical converter

The Flashlink 3GHD-OE-L-2-SFP is a dual SFP based multi bit-rate optical to electrical long haul converter providing high performance media conversion.

This converter supports 3G-, HD- and SD-SDI signal formats in addition to DVB-ASI, SMPTE 310M and MADI. The modular design – with the ability to quickly replace a whole unit – makes the 3GHD-OE-L-2-SFP the first choice for mission critical applications. The product is ideal for long haul applications because of its high quality SFP based optical APD receivers. The standards compliance of Nevion Flashlink products allows for easy interoperability with third party fiber optical systems.

The 3GHD-OE-L-2-SFP unit features three electrical outputs for each channel, which reduces the need for additional DA's. The card also features a switch between the two optical inputs allowing for redundancy switching between incoming signals.

On board DIP switches give access to most configuration parameters allowing the unit to be used in stand-alone applications.

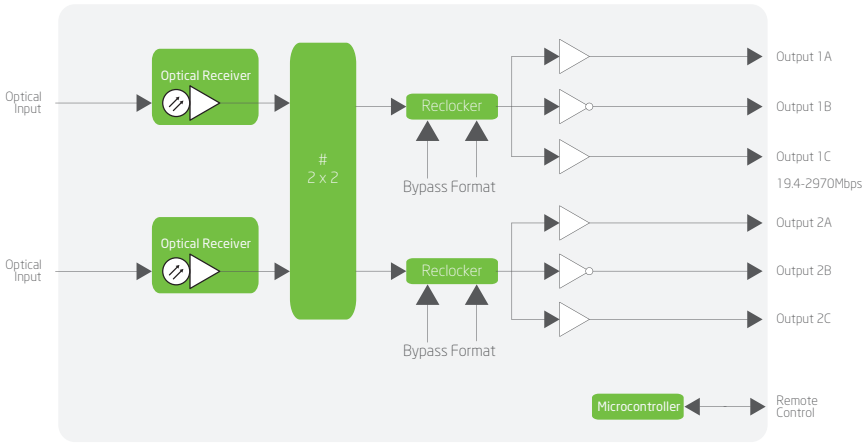
Applications

- Dark fiber contribution
- In-house networks
- Campus networks
- Broadcast studio infrastructure
- Optical video networks

Key features

- Automatic change-over on inputs
- 2x2 input switch
- Optical sensitivity
  - < -30dBm for HD-SDI, SD-SDI, DVB-ASI
  - < -25dBm for 3G-SDI
- Electrical 1x3 DA of both inputs

Flashlink 3GHD-OE-L-2-SFP



3GHD-OE-L-2-SFP

The 3GHD-OE-L-2-SFP is a dual optical to electrical video converter in the Flashlink range, utilizing Small Form Factor (SFP) modules for optical conversion. The SFP module is placed on the mainboard with pigtail connections to SC/UPC connectors that are plugged into the backplane. This allows for the mainboard to be removed, with its optics attached, while the fiber connections are still connected to the backplane.

The board supports 3G-SDI, HD-SDI, SDI-SDI and DVB-ASI transport. The auto bypass feature converts other signals between 2Mbps and 3Gbps including MADI.

Inputs are routed to a change-over switch that allows switching between the two incoming signals. Any input can be routed to all 6 outputs. Input switches are controlled through a GPI.

Most configuration settings can be accessed through eight on board DIP switches.

General

Power	+5V DC / 3.5W, max
Configuration Multicon GYDA web interface, SNMP, DIP switches, GPI Monitoring Multicon GYDA web interface, SNMP, LED, GPI	

Supported standards

SD-SDI, 270Mbps	SMPTE 259M, SMPTE 305.2M
HD-SDI, 1485Mbps	SMPTE 292M
3G-SDI, 2970Mbps	SMPTE 424M
ATSC	SMPTE 310M
Fiber transmission	SMPTE 297M
DVB-ASI	EN50083-9

Electrical outputs

Number of outputs	6
Connector	BNC 75 Ohm
Return loss	>15dB @ 5 – 1485MHz >10dB 1485 – 2970MHz
Peak to peak signal level	800mV ± 100mV
Polarity	1 inverting, 2 non-inverting per converter

Optical inputs

Number of inputs	2
Connectors	LC/UPC, single mode
Optical wavelength	~1200 – 1600nm
Optical sensitivity	-26dBm 3G-SDI -30dBm HD/SD-SDI, DVB-ASI
Optical overload	-6dBm
Detector damage threshold	> -6dBm
Receiver type	APD

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