

Nevion Flashlink

Order information

24552 FC-3G-ETH-D422-SFP	High density 1RU chassis for transporting 8 3G/HD/SD-SDI, 4x GbE, 16x RS422 and 16x GPI. All video ports are direction configurable based on inserted SFPs, allowing the product to be fitted to multiple applications. SFPs are not included.
24553 FC-3G-ETH-D422-CWDM-SFP	High density 1RU chassis for transporting 8 3G/HD/SD-SDI, 4x GbE, 16x RS422 and 16x GPI over a single fiber. All video ports are direction configurable based on inserted SFPs, allowing the product to be fitted to multiple applications. 18channel CWDM filter included. SFPs are not included.

- For availability contact your Nevion sales representative.

CONTACT INFORMATION

Europe

sales@nevision.com +47 22 88 97 50

Asia Pacific

asiasales@nevision.com +65 66 78 65 81

The Americas

ussales@nevision.com +1 (805) 247 8560

Middle East and Africa

middle-east@nevision.com +971 (0) 4 390 1018

UK

uksales@nevision.com +44 118 973 5831
nevision.com

Nevion reserves the right to make changes without notice to equipment specification or design. The information provided in this document is for guidance purposes only and shall not form part of any contract.
© 2018 Nevion. All rights reserved.

nevision

datasheet

Flashlink

nevision



FC-3G-ETH-D422-SFP

Multiple SDI, GbE, RS422 and GPI in 1RU

Nevion's newest addition to the Flashlink Compact series provides a compact and cost efficient answer to remote production over dark fibre.

The high density chassis is designed to transport multiple video, MADI, IP based audio and intercom systems, control data and tally over a single fibre.

Its small form factor, low power and light weight makes it ideal for smaller stage boxes that can be placed close to where they are needed. And its low noise makes it perfect for forwarding baseband signals to remote production areas where other equipment such as IP switches or gateways can be too noisy.

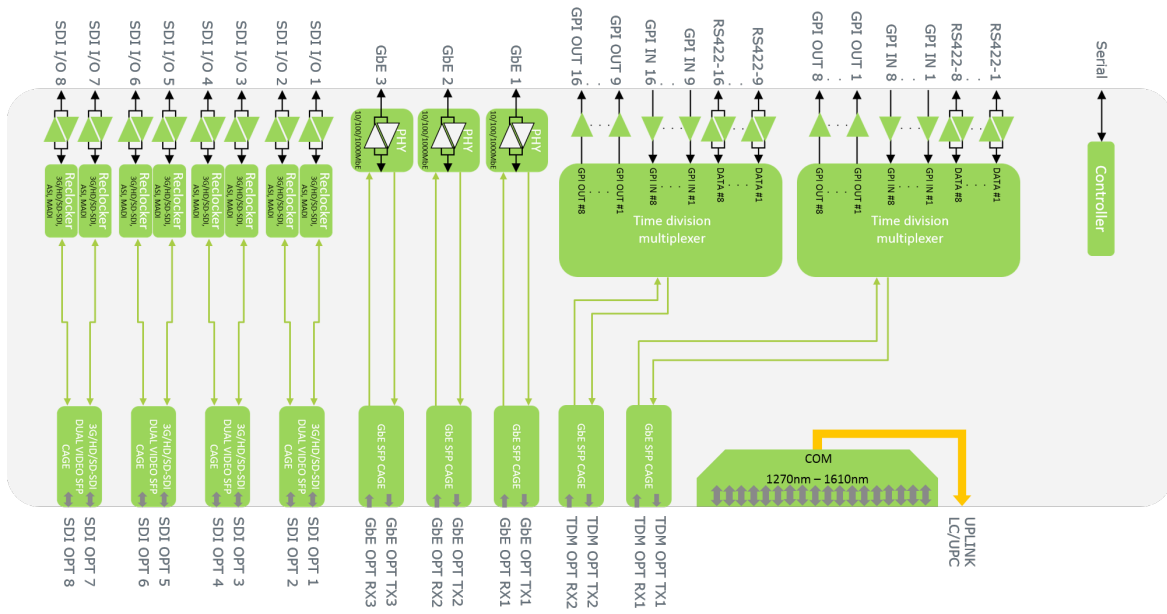
With Nevision's long haul optical interfaces and low loss optical filters distances above 80 km can be achieved making the product ideal for optical metro networks. And combined with the optical couplers, optical switches and electrical change-overs in the modular Flashlink range improved redundancy mechanisms can be added to the system.

Applications

- Dark fiber video transport
- Metro networks
- Remote production
- In-house/campus media networks

Key features

- Compact and light weight
 - 44mm x 483mm x 160mm
 - 2,1kg including SFPs and CWDM filter
- Low power
- Multi standard connectivity
 - 8x direction configurable 3G/HD/SD-SDI ports supporting MADI
 - 3x GbE, fixed latency
 - 16x RS422, speed up to 115.2kbps
 - 16x GPI in
 - 16x GPI out
- Single fiber output
- In-band management



Video ports supporting MADl

The product features direction configurable SDI ports supporting SD-, HD- and 3G-SDI. Together with the support for both dual receiver, dual transmitter and transceiver SFPs the product can be configured with any mix of video inputs and outputs. This allows the same product to be used in production setups with different amount of send and return feeds.

The direction can be configured from the web interface of Multicon or by DIP switches. Nevision's range of video SFPs are supported.

The same ports also support MADl, substituting a video link to enable MADl based audio transport.

GbE ports

The product has 3 GbE link ports that are well suited for both control traffic, ethernet based intercom solutions as well as audio over IP solutions such as Dante, Ravenna or AES67. Latency is fixed and kept at a minimum, so audio synchronization and PTP support is maintained. The ports are fully transparent to all traffic.

Nevions GbE SFPs are supported.

Data multiplexer

The product holds two time division multiplexers which each aggregating 8 RS422 channels, 8 GPI input and 8 GPI outputs to a bidirectional 270Mbps stream. This is optically transported using any Nevision GbE SFPs.

This gives a total of sixteen RS422 to provide control interface to legacy equipment. The RS422 channels supports up to 115.2kbps and can have individual bit rates per channel.

I also gives 16 GPI inputs ad 16GPI outputs to transport tallies, alarms and button control information between locations. The GPI inputs are high ohmic, and the outputs are open collector.

CWDM support

The product features option for a built-in 18 channel CWDM filter allowing all the optical signals to be multiplexed onto a single fiber uplink. This option is factory assembled. Note that CWDM variants of the video and GbE SFPs must then be chosen.

Control

FC-3G-ETH-D422-SFP has a serial port to connect to a Multicon controller. This gives a web interface for monitoring and configuration as well as an SNMP interface. For a remote unit, the serial port can also be connted thru one of the RS422 port enabling in-band management of the device.

General

Power	Max.20W/15VDC
No of inputs	2
Connector	DSUB Female 9-pin
Weight	2.1kg with SFPs and CWDM filter
Size	"1.7" x 19" x 6.2" (H x W x D) 43.4mm x 482.6mm x 158mm (H x W x D)*
User interface	Status LED, configuration DIP switches Web interface and SNMP thru Multicon controller
Operating temperature	0-45C
Supported standards	SMPTE 259M, SMPTE 292, SMPTE 424M, SMPTE 305M, SMPTE 297, EN50083-9, IEEE802.3i, IEEE802.3u, IEEE802.3ab, IEEE802.3z, AES10

Direction configurable SDI interfaces

Total number of ports	8
Signal type	*3G-SDI, HD-SDI, SD-SDI, DVB-ASI 19.4Mbps - 2970Mbps MADI, AES-51d*
Connector	BNC, 75Ohm
No of inputs	Up to 8
Cable equalization	*Automatic 150m @ 3G-SDI w/ Belden 1694A 250m @ HD-SDI w/ Belden 1694A 350m @ SD-SDI w/ Belden 8281†
No of outputs	Up to 8
Signal polarity	Non-inverting
Level	800mV +/-10%

Optical video interfaces

Total number of ports	8
Connector	LC/UPC
Optical system	Nevion's Video SFP range (non-MSA), including dual transmitter (2x TX), dual receivers (2x RX) and transceivers (Rx/TX)
No of inputs	Up to 8
No of outputs	Up to 8

Optical Ethernet interfaces

No of GbE interfaces	3
Connector	LC/UPC
Optical system	GbE SFPs (MSA)

Electrical Ethernet interfaces

No of ports	3
Signal type	100Mb Ethernet, 1Gb Ethernet
Connector	RJ45

Serial data interfaces

No of ports	16
Signal type	RS422
Connector	8x RJ45
Supported bit rates	DC up to 115.2kbps

GPI interfaces

No of inputs	16
Signal type	Up to 5V, internal pull-up to 3.3V
Connector	2x DSUB female 25p
No of outputs	16
Signal type	Open drain (N channel MOSFET)
Maximum voltage	30VDC
Maximum current	100mA
Connector	2x DSUB female 25p

Data multiplex interface

No of interfaces	2
Signal type	270Mbps bidirectional optical stream
Connector	2x LC/UPC
Optical system	GbE SFPs (MSA)

CWDM interface**(FC-3G-ETH-D422-CWDM-SFP only)**

No of CWDM ch.	18
Connector	LC/UPC
channels	1270,1290,1310,1330,1350,1370,1390,1410,1430,1450,1470, 1490, 1510, 1530, 1550, 1570, 1590, 1610
Uplink ports.	1
Connector	LC/UPC