nevion

4K ULTRAHD

Flashlink

UMC-EOOE-4-SFP

Universal media converter with 4 configurable optical ports

The UMC-EOOE-4-SFP is a quad optical converter supporting 3G/HD/SD and GbE with configurable optical ports that can take any direction depending on the SFPs used.

Intelligent SDI input switching based on signal integrity and full flexibility of input to output routing make this product useful in any optical transport application, being in front of a transmission chain or at the receiving end.

Full hot-swap functionality with all electronics including optics placed on the main board ensures minimum service breakage in the event of card swap.

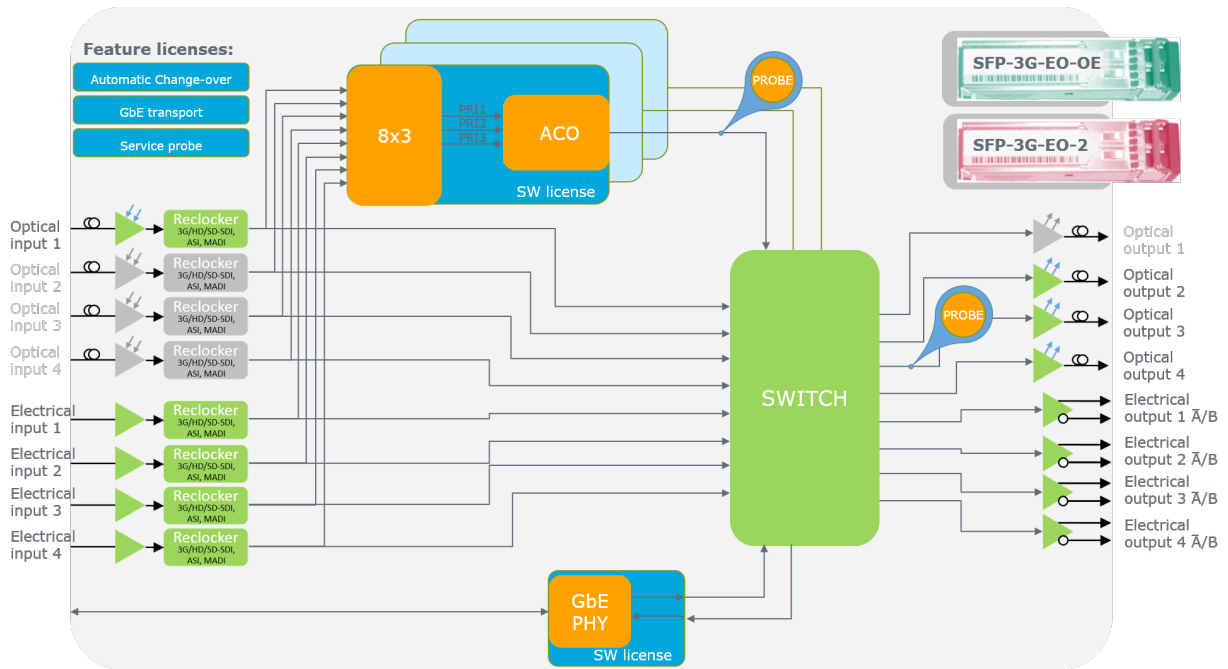The card brings higher density to modular conversion enabling up to 40 media conversion in 2RU.

Multicon GYDA provides SNMP support and web interface for monitoring and configuration of the unit, and with its on-board SDI probes this brings in-line monitoring of services running on the product.

Applications

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

Key features

- 2 SFP cages supporting any optical video SFP from Nevion
- Cross-point switch for any to any connectivity
- Electrical to optical GbE conversion
- Up to 4 optical inputs·Up to 4 optical outputs
- 4 electrical inputs
- Up to 8 electrical outputs
- Multiple 3x1 change-overs
- Re-clocking 3G/HD/SD-SDI, ASI and MADI

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Product description

UMC-EOOE-4-SFP is SFP-based and uses video SFPs for optical conversion. It supports any Non-MSA optical video SFP, being a dual transmitter, dual receiver or transceiver. The module auto-configures its functionality to the equipped SFP. This allows for changing the functionality of the card in the field, by simply replacing the SFPs.

The product also holds a central crosspoint that allows any input, optical or electrical, to be routed to any output, optical or electrical. The product features options for multiple automatic change-overs that can utilize any 3 inputs. It also features options for multiple SDI signal integrity probes that can be connected to any port or change over. These options are licensed.

The main card is hot-swapped, with pigtails connecting the SFPs to the backplane connector. This allows the user to replace the whole card including the optics, without needing to detach any electrical or optical cables.

Various backplanes are available with different connector configurations. Make sure to add the backplane selection to the order.

UMC-EOOE-4-SFP

Supported standards

GeneralPower	9.7W/5V
User interface	Status LED, Status GPI, configuration DIP switches Web interface and SNMP thru Multicon controller
Operating temperature	0-40C

Supported standards

SMPTE 259M, SMPTE 292, SMPTE 424M, SMPTE305M, SMPTE 297, EN50083-9, IEEE802.3i, IEEE802.3u, IEEE802.3ab, IEEE802.3z, AES10

Optical input

Number of inputs	Up to 4
Connector	LC/UPC
Optical performance	Nevion's Video SFP range

Optical output

Number of outputs	Up to 4
Connector	LC/UPC
Optical performance	Nevion's Video SFP range

Electrical SDI input

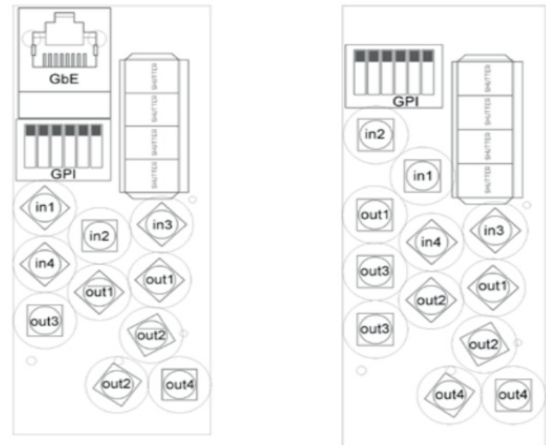|	
Number of inputs	4
Signal type	3G-SDI, HD-SDI, SD-SDI, DVB-ASI, MADI 100Mbps – 2970Mbps
Cable equalization	Automatic 80m @ 3G-SDI w/ Belden 1694A 180m @ HD-SDI w/ Belden 1694A 300m @ SD-SDI w/ Belden 8281
Connector	HD-BNC or DIN1.0/2.3, 75 Ohm

Electrical SDI output

No of outputs	Up to 8 (dependent on backplane)
Signal polarity	4 non-inverting, 4 inverting
Level	800mV +/-10%
Connector	HD-BNC or DIN1.0/2.3, 75 Ohm

Electrical Ethernet port

No of ports	1
Signal type	1Gb Ethernet
Connector	RJ45

Configurable GPI ports

No of ports	Up to 5
Connector	Push-in spring wire connector

UMC-EOOE-4SFP Back panels

GPI inputs

No of inputs	Up to 5
Signal type	Internal pull-up to 3.3V

GPI outputs

No of outputs	Up to 5
Signal type	Open collector transistor
Maximum voltage	15VDC
Maximum current	150mA

Ordering options

UMC-EOOE-4-SFP

Quad channel universal media converter hardware. Uses Nevion's optical video SFPs. SFP not included.

UMC-SW-ACO3x1

Software license to enable one automatic change-over allowing any 3 inputs. Up to 3 ACO licenses can be installed on a single module.

UMC-SW-ETH1000

Software license to enable GbE electrical/optical conversion. Optical video transceiver SFP must be installed in one of the SFP slots. SFP not included.

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CONTACT INFORMATION

Europe
sales@nevion.com   +47 22 88 97 50

Asia Pacific
asiasales@nevion.com   +65 9815 4988

America
ussales@nevion.com   +1 805 247 8560

Middle East & Africa
middle-east@nevion.com   +971 (0) 4 390 1018

UK
uksales@nevion.com   +44 (0) 118 973 5831

nevion.com

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