Sublime optical

3G-SDI router range with optical ports, control panel and redundant system controller support

The Sublime optical is a mixed optical/electrical compact router solution ranging from 16x16 in 1RU to 128x128 in 8RU. The optical extension ports are built up as modules of 16 in +16 out, and ranges upto 128 in+128 out.

The optical transmitter range includes all 18 channels of CWDM, making large interconnections in outside broadcast environments feasible. Its high density, low weight and low power makes Sublime optical an ideal choice for OB applications as well as studio routing networks.

Nevion's Sublime optical range of compact routers brings together the flexibility and cost savings of the dongle products with the high reliability and management level that broadcasters require in professional video transport equipment.

The combination of optical and electrical ports enables distributed routing schemes that brings cost savings and redundancy benefits to new or upgraded installations.

Its ultra-low power consumption also makes it a reliable and low operational cost router and underlines Nevion's commitment to ensure customers environmental initiatives.

Key features

- Optical I/O with hot swappable SFP modules
- Ranging from 16x16 in 1RU to 128x128 in 8RU
- Supported bitrates: 143Mbps – 3Gbps
- Reclocking on standard 3G/HD/SD-SDI and DVB-ASI signals
- Embedded XY control panel
- Reclockers may be turned off, for support of E4/STM-1e
- Ethernet and RS232/NCB control interfaces
- Ultra slim frame depth
- Software based configurator for easy system set-up
- Redundant power supply
- Future proof and flexible product range

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Ordering options without control panels

19063 SL-3GHD1616-16OPT	16x16 3G-SDI 1RU router with 16 optical I/O and control panel
19057 SL-3GHD3232-16OPT	32x32 3G-SDI 2RU router with 16 optical I/O and control panel
19059 SL-3GHD3232-32OPT	32x32 3G-SDI 2RU router with 32 optical I/O and control panel
19061 SL-3GHD6464-16OPT	64x64 3G-SDI 4RU router with 16 optical I/O and control panel
19063 SL-3GHD6464-32OPT	64x64 3G-SDI 4RU router with 32 optical I/O and control panel
19065 SL-3GHD6464-48OPT	64x64 3G-SDI 4RU router with 48 optical I/O and control panel
19067 SL-3GHD6464-64OPT	64x64 3G-SDI 4RU router with 64 optical I/O and control panel
19075 SL-3GHD128128-RC-112OPT	128x128 3G-SDI 8RU router with 112 optical I/O and redundant system controller support
19076 SL-3GHD128128-RC-128OPT	128x128 3G-SDI router with 128 optical I/O and redundant system controller support
19069 SL-3GHD128128-RC-160OPT	128x128 3G-SDI 8RU router with 16 optical I/O redundant system controller support
19070 SL-3GHD128128-RC-320OPT	128x128 3G-SDI 8RU router with 32 optical I/O redundant system controller support
19071 SL-3GHD128128-RC-480OPTPT	128x128 3G-SDI 8RU router with 48 optical I/O control panel
19072 SL-3GHD128128-RC-640OPT	128x128 3G-SDI 8RU router with 64 optical I/O control panel
19074 SL-3GHD128128-RC-960OPT	64x64 3G-SDI 4RU router with 64 optical I/O and control panel
19056 SL-3GHD1616-CP-16OPT	16x16 3G-SDI 1RU router with 16 optical I/O
19058 SL-3GHD3232-CP-16OPT	32x32 3G-SDI 2RU router with 16 optical I/O
19060 SL-3GHD3232-CP-32OPT	32x32 3G-SDI 2RU router with 32 optical I/O
19062 SL-3GHD6464-CP-16OPT	64x64 3G-SDI 4RU router with 16 optical I/O
19064 SL-3GHD6464-CP-32OPT	64x64 3G-SDI 4RU router with 32 optical I/O
19066 SL-3GHD6464-CP-48OPT	64x64 3G-SDI 4RU router with 48 optical I/O
19068 SL-3GHD6464-CP-64OPT	64x64 3G-SDI 4RU router with 64 optical I/O

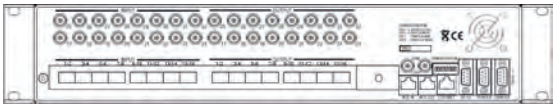
SL-3GHD1616-16OPT/SL-3GHD1616-CP-16OPT

16x16 3G-SDI
with optical I/O router

Dimensions
483x44x50mm (19", 1RU)

SL-3GHD3232-16OPT/SL-3GHD3232-CP-16OPT

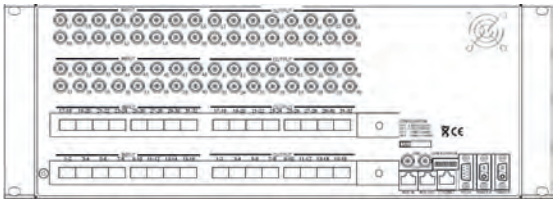
32x32 3G-SDI
with optical I/O router



Dimensions
483x88x50mm (19", 2RU)

SL-3GHD6464-32OPT/SL-3GHD6464-CP-32OPT

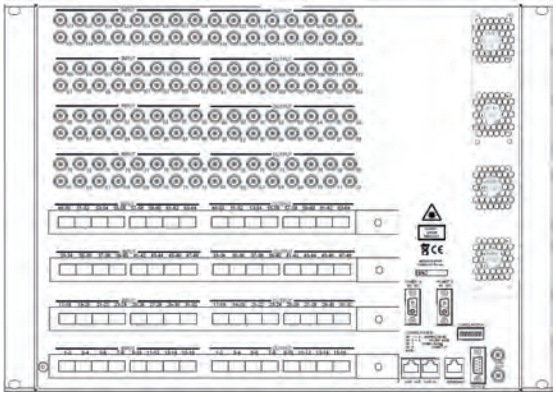
64x64 3G-SDI
with optical I/O router



Dimensions
483x176 50mm (19", 4RU)

SL-3GHD128128-RC-64OPT/SL-3GHD128128-CP-64OPT

128x128 3G-SDI
with optical I/O router



Dimensions
483x355 50mm (19", 8RU)

See nevion.com for more backplane examples.

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Power supply

SL-PWR-90	90W Power supply unit for 16x16 and 32x32 versions
SL-PWR-300	300W Power supply unit for 64x64 and 128x128 versions
See specs for power supplies in the Sublime accessories section.	

Control

Serial port	RS232 for protocol conversion, to VikinX compact control protocol, or to third-party protocols
Connector	DE9, D-sub 9-pin female
NCB ports	For integration with VikinX compact router configuration
Connectors	2x RJ45 (1 in/1 out)
Ethernet port	10/100 Base-T Ethernet bus for external router control
Connector	RJ45
Optional features	
Control panel	Optional, built-in control panel available. External control panels available

Supported protocols

MRP (IP), NCB Compact (serial), NCB Sublime (serial), GVG/ Thomson Native (IP), Leitch PassThru (IP and serial), Triton (serial)

Supported formats

Signal type	270Mbps – 2.97Gbps 2K, 2048x1556/23.98 and 24 AES-3id

Supported standards

SD-SDI, 270Mbps	SMPTE-259M
HD-SDI, 1.485Gbps	SMPTE-292-2008
3G-SDI, 2.97Gbps	SMPTE-424M
DVB-ASI	EN50083-9
Fiber transmission	SMPTE-297-2006

Optical signal inputs

Nevion's dual video receiver SFP range

Optical signal outputs

Nevion's dual video transmitter SFP range

Electrical signal inputs

Connectors	BNC, 75 Ohm
Cable equalization	Automatic up to 70m @ 2.97Gbps, typical Belden 1694A Automatic up to 100m @ 1.485Gbps, typical Belden 1694A Automatic up to 300m @ 270Mbps, typical Belden 8281

Electrical signal outputs

Connectors	BNC, 75 Ohm
Signal level	800mVp-p ±10%
Signal polarity	Non-inverting

Reference inputs

Number of inputs	1
Connector	75 Ohm BNC female, loop-thru
Return loss	>40dB (100 kHz – 5 MHz) >35dB (5-10 MHz).
Signal format	NTSC or PAL Black&Burst or HD Tri-Level according to SMPTE-274M, SMPTE 276M
Signal level	Nominal 1.0Vp-p
Field selectivity	Field 1
Timing range	SD, PAL: within clock-intervals (27MHz) 565 – 835 line 6 SD, NTSC: within clock-intervals (27MHz) 565 – 835 line 10 HD Tri-Level: 1280x720: within clock-intervals (148.5MHz) 455 – 780 line 7 HD Tri-Level: 1920x1080: within clock-intervals (148.5MHz) 625 – 1070 line 7