



VikinX Sublime X²

SLX2-3GHD3232-CP

Redundant multi-function compact router

Nevion's innovative Sublime X² is a router that punches above its weight.

With its management, cross point and power redundancy, it features the reliability of large modular routers. A multi-core signal processing farm makes it a hybrid router. Its compact form factor makes it ideal for applications where size really matters. And its clever design, brings cost savings to its users.

SLX2-3GHD3232-CP is an ultra thin 32x32 router in 2RU supporting redundant cross-point, redundant controller and a quad-core processing module. Each processing core supports clean switching and audio embedding/de-embedding making it well suited for OB and play out applications. The signal processor also offers future proofing by enabling feature upgrades through a software based processing platform.

The SLX2-3GHD3232-CP features a routing level for the de-embedded and embedded audio. An optional AES extension, providing 32 AES I/O ports and scaling the routing level to a 64x64 AES router, makes the router the ideal choice for in-studio routing.

The embedded system controllers provide a powerful web interface for control and management, SNMP support and support for multiple control panels enabling multi user control. Support for external router and 3rd party interfaces makes Sublime X² central to any routing system.

Applications

- Outside broadcast
- Studio infrastructure
- Signal processing
- Contribution routing
- Play-out routing

Key features

- 32x32 3G/HD/SD-SDI router in 2RU
- 32 configurable AES I/O ports
- DVB-ASI compliant
- Redundant replaceable cross point module
- Redundant replaceable controllers
- Redundant power
- Redundant Ethernet connection
- Multi-core video and audio processing including
 - clean switch, audio embedding and AES routing
- Web interface and SNMP for control and monitoring
- Support for all Nevision control panels on IP
- Extensive 3rd party protocol support including
 - Leitch pass-thru, Triton, Pro-Bel, GVG native

Product description

The Sublime X² SLX2-3GHD3232-CP is a video router whose capabilities can be expanded through add-on boards and software licenses.

Base unit

The base unit is a 32x32 3G-SDI compatible video router with a touch sensitive control panel and a display in front. It is compliant with DVB-ASI as well as AES-3id. The unit also includes a system controller that can be replaced from the front. The system controller provides the unit with an IP connection and a serial port connection.

Redundant cross point

A replaceable redundant cross point can be added as an option to the router. This cross point acts as the main cross point, leaving the other cross point in a cold running sleep mode. In case of a cross point failure, the router is switched to its back-up cross point. The main cross point can be replaced during a service window while the router is powered off. The cross point board is reached from the front of the router.

Redundant controller

The router can be expanded with an additional redundant controller, that is replaceable. This controller gives a second IP connection enabling management network redundancy. It also provides a second serial port, that can be set up independently to the other serial port.

System control

The unit holds a system controller that provides web interface and SNMP support, and allows control from external Nevision control panels via IP connection. The controller supports functions known from Multicon system controller including levels, virtual router, categories, salvos and mnemonics. The controller provides a serial connection that allows control of one Flashlink frame, or connections to other serial protocols.

Web interface

The unit provides web interface for levels, virtual router and salvos control, as well as in-depth monitoring and configuration of the physical parameters of the router. List and matrix views are provided with the ability to directly edit names and description and lock or protect outputs making the web control well suited as master control panel.

List View

#	Name	Description	Input	Presence	Lock state
1	CAM1	HD-CAM	CAM1	Unknown	Unlock
2	CAM2	SD-CAM	CAM2	Unknown	Unlock
3	CAM3	remote 1	CAM3	Unknown	Unlock
4	CAM4	remote 2	CAM4	Unknown	Unlock
5	POST PRO		POST PRO	Unknown	Protect
6	EDITING		EDITING	Unknown	Protect
7	VISION MIX1		VISION MIX1	Unknown	Protect
8	VISION MIX2		VISION MIX2	Unknown	Protect
9	IN09		IN09	Unknown	Unlock
10	IN10		IN10	Unknown	Unlock
11	IN11		IN11	Unknown	Unlock
12	IN12		IN12	Unknown	Unlock
13	IN13		IN13	Unknown	Unlock
14	IN14		IN14	Unknown	Unlock
15	IN15		IN15	Unknown	Unlock
16	IN16		IN16	Unknown	Unlock
17	IN17		IN17	Unknown	Lock
18	IN18		IN18	Unknown	Lock
19	IN19		IN19	Unknown	Unlock

Configuration View

Position	Type	Alarms
Frame 1, Sublime X2 32x32, 4 cores		
IN	INPUTS	
VIDEO MATRIX		
OUT	OUTPUTS	
PROCESSING CORE 1		
PROCESSING CORE 2		
PROCESSING CORE 3		
PROCESSING CORE 4		
AUDIO MATRIX		
CONTROL PANEL		
MULTICON 1		
EXT POWER		

Electrical input	Normal	Signal detected
Electrical input 1	Normal	Signal detected
Electrical input 2	Normal	Signal detected
Electrical input 3	Normal	Signal detected
Electrical input 4	Normal	Signal detected
Electrical input 5	Normal	Signal detected
Electrical input 6	Normal	Signal detected
Electrical input 7	Normal	Signal detected
Electrical input 8	Normal	Signal detected
Electrical input 9	Normal	Signal detected
Electrical input 10	Normal	Signal detected
Electrical input 11	Normal	Loss of signal
Electrical input 12	Normal	Loss of signal
Electrical input 13	Normal	Signal detected
Electrical input 14	Normal	Loss of signal
Electrical input 15	Normal	Loss of signal
Electrical input 16	Normal	Loss of signal
Electrical input 17	Normal	Loss of signal
Electrical input 18	Normal	Loss of signal
Electrical input 19	Normal	Loss of signal
Electrical input 20	Normal	Loss of signal
Electrical input 21	Normal	Loss of signal

System controller expansions

Licensing enables control of other routers and devices as well as providing northbound and southbound interfaces for a variety of 3rd party protocols, both IP based and serial based. The list of protocols include Leitch, GVG/Thompson and Pro-Bel as well as SDK interface for other plug-in developments.

Video and audio processing

The router expansion also includes a quad-core signal processor with an AES interface board providing 32 direction configured AES ports. Each processing core can access any video input and output, and are featured with a clean-switch function and audio embedder/ de-embedder function.

The audio from the embedders/ de-embedders as well as the AES interface board are entering an audio matrix, giving the router an audio router function presented as an audio level.

Development will continue to bring forward new functions to the processing module. These functions will be available through software licensing.

Specifications

General

Power 12VDC	60W max, typical 25W (basic configuration)
Control and monitoring	SNMP, web interface, front control panel with display
Temperature range	0 to +40°C

Supported standards

SD-SDI, 270Mbps	SMPTE259M
HD-SDI, 1485Mbps	SMPTE292M
3G-SDI, 2970Mbps	SMPTE424, SMPTE425A, SMPTE425B
DVB-ASI	EN50083-9
AES	AES3-1996
Video switch point	SMPTE-RP168
Black burst and Trilevel	SMPTE170m, ITU-R BT.1700, ITU-R BT.709-5

Electrical video inputs

Number of inputs	32
Connector	HD-BNC or DIN1.0/2.3
Impedance	75 Ohm
Return loss	>15dB (5MHz - 1.5GHz) >10dB (1.5MHz - 2.97GHz)
Cable equalization	Automatic >120m 3G-SDI with Belden 1694A typical >180m HD-SDI with Belden 1694A typical >400m SD-SDI with Belden 8281 typical

Electrical video outputs

Number of inputs	32
Connector	HD-BNC or DIN1.0/2.3
Impedance	75 Ohm
Return loss	>15dB (5MHz - 1.5GHz) >10dB (1.5MHz - 2.97GHz)
Signal level	800mVp-p +/-10%
Signal polarity	Non-inverting

AES I/O ports (optional)

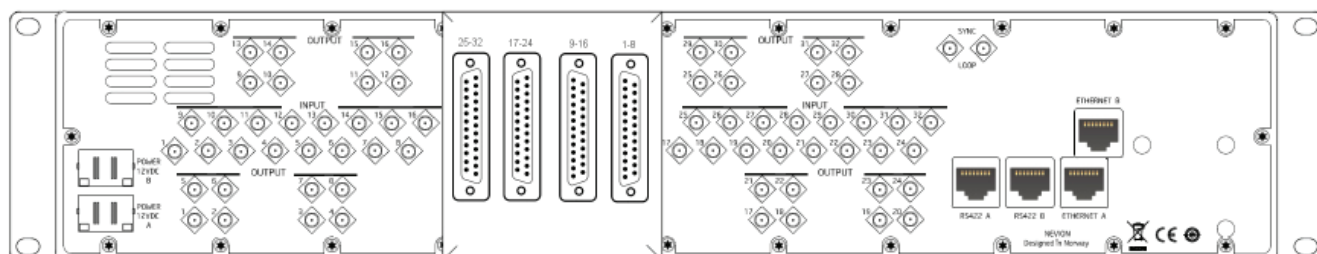
Number of ports	32, direction configured through web interface
Connector	25pin SUB-D female
Impedance	110 Ohm transformer balanced
Audio data rate	24 bit 48kHz synchronous to sync input

Sync input

Number of inputs	1 + passive loop
Connector	HD-BNC or DIN1.0/2.3
Impedance	75 Ohm
Return loss	>35dB @ <10MHz >30dB @ <30MHz

Processing (Optional)

No. of processing cores	4
Core functions	Clean-switch ensuring error free outputs Embedding/De-embedding of up to 8 channels Audio router level



Ordering options

23626	SLX2-3GHD3232-CP-DIN	2RU 32x32 3G-SDI compatible compact router with DIN1.0/2.3 connectors, built-in controller with WEB interface, SNMP support and support for Nevision control panels. The router also features options for redundant controller, redundant cross point and audio/video processing modules. Single PSU included.
23627	SLX2-3GHD3232-CP-HDBNC	2RU 32x32 3G-SDI compatible compact router with HD-BNC connectors, built-in controller with WEB interface, SNMP support and support for Nevision control panels. The router also features options for redundant controller, redundant cross point and audio/video processing modules. Single PSU included.
23628	SLX2-HW-RC	Hardware option for redundant controller to Sublime X2.
23629	SLX2-HW-RX32	Hardware option for redundant cross point to 32x32 Sublime X2 routers.
23630	SLX2-HW-VPROC4	Hardware option for quad core processing board to 32x32 Sublime X2 routers. HW only, processing features licenced separately.
23631	SLX2-HW-AVPROC4	Hardware option for quad core processing board with 32 port AES breakout to 32x32 Sublime X2 routers. HW only, processing features licenced separately.
23632 required.	SLX2-SW-CQ1	Software option for single clean-switch core. SLX2-HW-VPROC4 or SLX2-HW-AVPROC4
23633	SLX2-SW-EMB1	Software option for single embedder/de-embedder core. SLX2-HW-VPROC4 or SLX2-HW-AVPROC4 required.
23637	SLX2-SW-3PP	Software option enabling 3rd party protocols.
23636	SLX2-SW-VX-CTRL	Software option enabling control of external VikinX routers
23638	SLX2-PWR-80	80W 12V Power supply for Sublime X2



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