

Specification Sheet SLM32-001

High Performance 850-2450MHz L-Band Matrix Up to 32-in, 32-out Switching Array System SLM32(X): Fan-OUT and Fan-IN Versions

January 2018

General

Critical communication installations demand high performance, high reliability, and expandable core equipment. Our SLM32 modular L-Band matrix unit delivers an uncompromising combination of these features in a cost effective 6RU package. The unit delivers a modular 850-2450MHz high performance extended L-Band switching array that can be configured up to a 32x32 matrix, and further expanded with additional hardware to 64x64. For wideband applications (20-3000MHz), see System SWM32.

Redundant hot-swap monitored power supplies are standard, plus our optional redundant system control interfaces (C3-Lite CPU) deliver the ultimate in system reliability for critical applications. Should a rare failure occurs or an input is damaged, it will only affect a single channel. The SLM32X is the same but has a 10.1" display (**Option-X**) and additional front panel features.

Compact (6RU) and high performance, it provides a cost effective, flexible switching capacity for smaller installations. The unit can be configured from a small 4x4 and field expandable to a 32x32 in single-channel increments while delivering a non-blocking (Fan-OUT) switch array, or a combiner type (Fan-IN) array. Configurations can be symmetrical (16x16) or asymmetrical (10x24, 9x32). Fixed reduced sized versions (not expandable) are also available to reduce overall cost (consult factory).

Comprehensive control and status of the unit is accessible at either the lockable touchscreen, the 10/100 interface(s) with web browser, or our RoutwarePRO software package. All input and output blades are hot-swappable for simple repair or system expansion.

Applications

- Communication installations
- Airborne surveillance systems
- Teleport and last mile installations
- Ground station and infrastructure facilities
- Receiver routing for transmit or receive

Features

- High reliability GaAs switch technology
- SMA, BNC, and F-Type signal connector types
- Impedance 50 or 75 ohm
- Expandable in the field to 32x32
- Redundant hot-swap power supplies
- Option "L" adds LNB redundant power & features
- Single or dual controllers (and 10/100 ports)
- Available with **Option-X** display (SLM32X)
- Choose between Fan-OUT or Fan-IN versions
- Menu driven touchscreen display & web browser
- Hinged front and rear access (illuminated)
- 10/100 Ethernet control port(s)
- Includes TCP/IP, SNTP, SNMP v1/2, IPv4/6
- Removable microSD card for secure environments
- Supports expansion to 64x64 with additional hardware
- Built-in continuous diagnostics
- Available in wideband version (see SWM32)
- Variable gain
- International AC power input
- LabVIEW drivers and control software available













Download our Monitor & Control software **RouteWarePRO** for a FREE 30-day trial today!



System SLM32 Shown with standard 4.3" display

SLM32-001



US

System SLM32X

Phn: +1 818-381-5111

Shown with Option X 10.1"display

Fan-OUT Number Assignment

The following format is used to define a standard Fan-OUT (signal distributive) system configuration:

SLM32-iiooxzc(L)

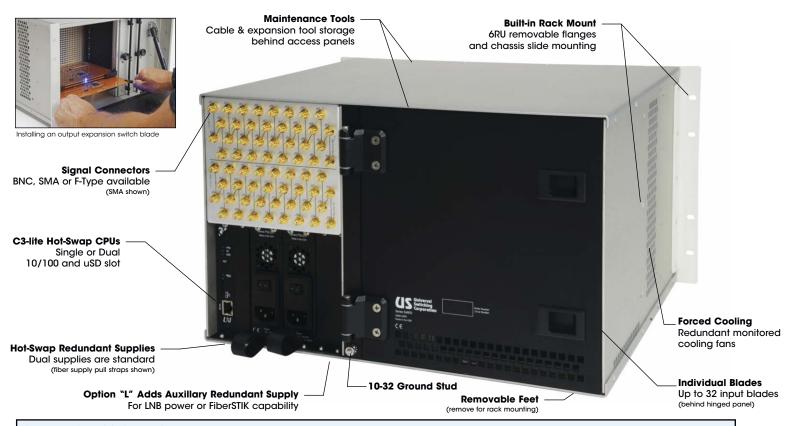
The SLM32 (SLM32X for 10.1" screen Option-X) is the base model number for the Fan-OUT version of the system followed by "ii" defining the number of inputs (04 to 32) followed by "oo" defining the number of outputs (04 to 32). The final suffix is defined where "x" defines 1 or 2 controllers (single or dual), "z" is the system impedance (5=50 ohms, or 7=75 ohms) and "c" defines the I/O connectors (A=SMA, C=BNC, or F=F-Type). Optional "L" suffix adds redundant LNB supply, LNB current monitor, and control of 22kHz tone & 0/13/18V.

Fan-IN Number Assignment

The following format is used to define a standard Fan-IN (signal combiner) system configuration:

SLM32i-iiooxzc

The SLM32i (SLM32Xi for 10.1" screen Option-X) is the base model number for the Fan-IN (combiner) version of the system followed by "ii" defining the number of inputs (04 to 32) followed by "oo" defining the number of outputs (04 to 32). The final suffix is defined where "x" defines 1 or 2 controllers (single or dual), "z" is the system impedance (5=50 ohms, or 7=75 ohms) and "c" defines the I/O connectors (A=SMA, C=BNC, or F=F-Type).



System SLM32 Specific	cations
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Array sizeUp to 32in x 32out array Switching technologySolid-state GaAs elements

Type of systemNon-blocking full fan-out (or combiner)

ArchitectureModular (single card per In/Out)

I/O Characteristics

Frequency range 850 - 2450MHz Impedance50 ohm (75 optional)

Signal couplingAC

 Gain
 .Unity (0dB +/-1dB nominal)

 Gain adjust
 -10dB to +20dB

 Flatness
 .<+/-2.5dB typ (<0.5dB per 40MHz segment)</td>

Isolation>60dB (I/I, O/Ò, I/O)

Input return loss>20dB typ Output return loss>14dB typ -1dB compression>+10dBm

Output IP3

Signal connector SMA, BNC or F-Type female

Universal Switching's policy is one of continuous development. Consequently, the company reserves the right to vary from the descriptions and specifications shown in this publication.

General Specifications

Switching speed<10mS

Power supply section Hot-Swap redundant supplies

Auxillary supplyOptional redundant LNB supply (Fan-OUT)

Power supply monitoringIncluded

Input and output cardsHot swap

Front panel displayTouchscreen (4.3" or optional 10.1")

Configuration memoryFLASH

High security featuremicroSD slot for removable memory .Redundant fan assisted (monitored)

AC power requirements90-264VAC, 47-440Hz, <220 Watts Line protectionFuses @ power inputs (spares included)

Weight40 lbs Size10.47H x 15.50D x 19.00W (6RU)

Operating temp 0 to +60C Non-operating temp-20 to +85C

Humidity 0 to 95% (NC @ +25C) MTBF>120,500 hours (estimated) Warranty 2 years, up to 7-Years extended

CertificationsCE EN61010

^{**} NOTE 1: If special or unique performance or features are required, the base model number is used plus a unique 5-digit factory assigned suffix.

