

General

Critical communication installations demand dependable State-of-the-Art equipment. The SLM32 modular L-Band matrix unit provides the systems engineer with an uncompromising combination of high performance and high reliability switching. This is coupled together for 950-2150MHz performance (850-2450 extended version) and can be configured up to a 32x32 matrix. Wideband versions are available as well (contact the factory).

Standard redundant hot-swap power supplies plus optional redundant system control interfaces (C3-Lite CPU) deliver the ultimate in system reliability for critical applications. The SLM32X is the same but has a 10.1" display (**Option X**) and additional front panel features.

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

Complete control and status of the unit is available at both the touchscreen or the 10/100 interface(s). All input and output cards 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 or BNC signal connector types
- Impedance 50 or 75 ohm
- Expandable in the field with modules
- Redundant hot-swap power supplies
- Single or dual controllers (and control ports)
- Available with **Option X** display (SLM32X)
- Available in Fan-Out or Fan-In (combiner) versions
- Menu driven color touchscreen display & web browser
- Available with either single or dual CPUs (C3-Lite)
- 10/100 Ethernet control port(s)
- Includes TCP/IP, SNTP, SNMP v1/v2, IPv4 & IPv6
- Removable microSD card for secure environments
- Built-in continuous diagnostics
- Available in optional wideband versions
- Variable (programmable) gain optional
- International AC power input
- LabVIEW drivers and control software available



System SLM32X
 Shown with **Option X** 10.1" display
 (6RU)



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



System SLM32
 Shown with standard 4.3" display

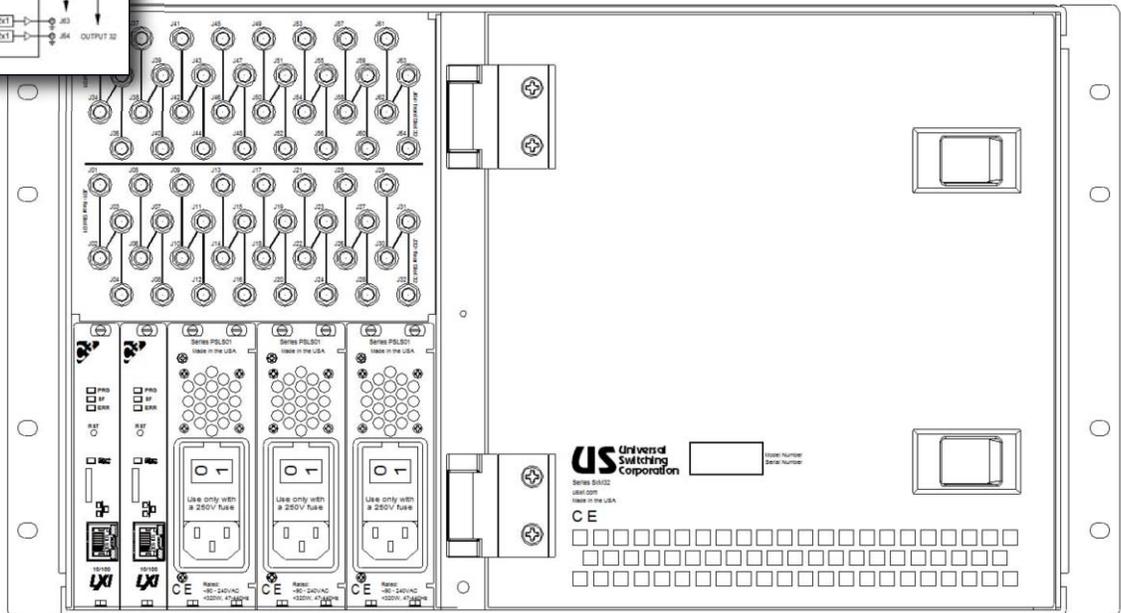
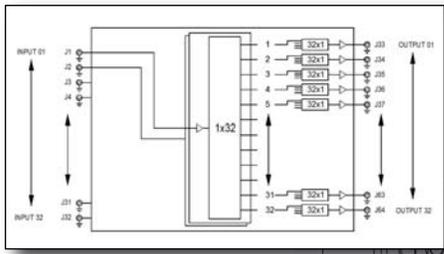
SLM32-001

Fan-Out Number Assignment

The following format is used to define a standard Fan-Out switching system (simplified diagram below):

SLM32-ii00-xzc

The SLM32 (SLM32X) 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 "00" defining the number of outputs (04 to 32). The final suffix is defined where "x" is 1 or 2 controllers (single or redundant), "z" is the system impedance (5 for 50 ohms, or 7 for 75 ohms) and "c" defines the I/O connectors (A for SMA, or C for BNC).



Fan-In Number Assignment

The following format is used to define a standard Fan-In switching system:

SLM32i-ii00-xzc

The SLM32i (SLM32Xi) 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 "00" defining the number of outputs (04 to 32). The final suffix is defined where "x" is 1 or 2 controllers (single or redundant), "z" is the system impedance (5 for 50 ohms, or 7 for 75 ohms) and "c" defines the I/O connectors (A for SMA, or C for BNC).

System SLM32 Specifications

Array size Up to 32in x 32out non-blocking array
 Switching technology Solid-state GaAs elements
 Type of system Non-blocking full fan-out (or combiner)
 Architecture Modular (single card for In or Out)
 Signal connector location Rear panel

I/O Characteristics

Frequency range 950 - 2150MHz (850-2450MHz extended)
 Impedance 50 ohm (75 optional)
 Coupling AC
 Gain Unity (0dB +/-1dB nominal)
 Flatness <+/-2dB
 Crosstalk isolation >60dB
 Input return loss >14dB typ
 Output return loss >14dB typ
 -1dB compression +10dBm min
 Noise Figure <15dB
 Output IP3 >20dBm
 Signal connector SMA or BNC female

General Specifications

Switching speed <10mS
 Power supply section Hot-Swap redundant supplies
 Auxiliary supply Optional redundant LNB supply
 Power supply monitoring Included
 Ethernet port 10/100BaseT, SNTP, SNMP v1/v2 & TCP/IP
 Redundant controllers Optional (hot swap)
 Input and output cards Hot swap
 Front panel display Touchscreen (4.3" or optional 10.1")
 Configuration memory FLASH
 Cooling Fan assisted (monitored)
 AC power requirements 90-264VAC, 47-440Hz, <220 Watts
 Line protection Fuses @ power inputs
 Weight <65 lbs
 Size 10.47H x 16.50D x 19.00W (6RU)
 Operating temp 0 to +50C
 Non-operating temp -20 to +85C
 Humidity 0 to 95% (NC @ +25C)
 MTBF >45,000 hours (estimated)
 Warranty 2 years
 Certifications CE EN61010

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

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.