

## Specification Sheet SLX321-001

Scaleable High Performance 850-2450MHz L-Band Matrix Up to 128x192 (Fan-OUT), 192x128(Fan-IN) Switching Array System SLX321 and SLX321i - 13RU

PRELIMINARY - August 2017

### General

The SLX321 (Fan-OUT) and SLX321i (Fan-IN) large format SatCom modular L-Band matrix unit provides system professionals with an uncompromising combination of modularity, high performance, and extreme reliability. Modularity is designed in for configurations up to 128x192 (192x128) and standard capability for 950-2150MHz signal routing, or 850-2450 extended bandpass versions. Other asymmetric configurations are available such as 64x256 (256x64) and is the SLX320(i).

As part of our field proven CAS product offering (Critical Application System), all active modules and assemblies are hot-swap and removable via the lockable hinged front panel. The system also includes redundant hot-swap power supplies and optional redundant hot-swap system controllers (C3 CPU) to deliver decisive up-time as well as the ultimate in system reliability for critical applications.

Compact (13RU) and high performance, the modular design provides a cost effective flexible switching capacity for configurations up to 128x192 (non-blocking Fan-OUT) or 192x128 (combiner Fan-IN). Reduced sized versions (depopulated) are also available to reduce initial system cost. Larger configurations are available by cascading multiple units with a common control for simple system management.

Complete control and monitoring of the unit is available at both the intuitive touchscreen front panel, or any of the



# **Applications**

- Communication installations
- Encryption and decryption installations
- Government secure sites
- SatCom modem uplink and downlink
- Airborne surveillance systems
- Teleport and last mile installations
- Ground station and infrastructure facilities
- Receiver routing for transmit or receive

## **Features**

- High reliability GaAs Tri-stage (redundant) technology
- Half the size of competitors (for similar configuration)
- SMA or BNC signal connector types
- Impedance 50 or 75 ohm
- Optional LNB power on inputs
- Optional 10MHz LNB reference input and routing
- Redundant hot-swap power supplies with PFC
- Single or dual controllers (and control ports)
- Available in Fan-OUT or Fan-IN (combiner) versions
- Ethernet, USB and Serial control ports
- Removable microSD card for secure environments
- SNMP v1/2/3, TCP/IP, SNTP, web browser control
- Built-in continuous diagnostics and monitoring
- Variable input gain (-8 to +20dB)
- Field configurable serial port (RS-232C/422A/485)
- International AC power inputs





SI X321-001

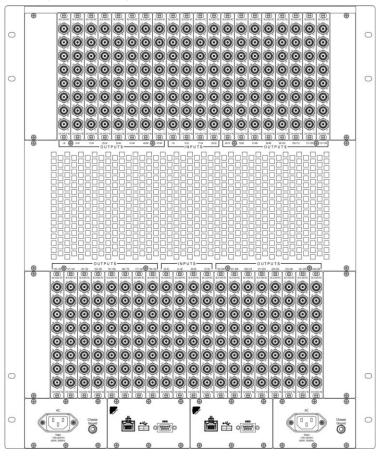


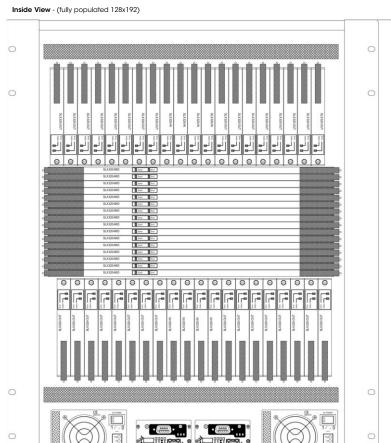
## **New Technology with Experience**

Our SLX321 is designed with the latest components for higher performance, and lower power consumption. Shown below is the modular rear surface where a mix of I/O connector types can be used (SMA, BNC or F). Behind the hinged front panel is where all active modules (switch modules, power supplies, fan assemblies, and CPU's) can be hot-swapped.

A less than populated unit can simply be expanded in the field by adding new modules. Inputs or outputs can be added in 8channel increments (independently). USC has been designing large format Tri-Stage switching systems for 25 years (since 1992). Our closest competition is over twice the size for a similar configuration.

Rear View - (fully populated 128x192)





## System SLX321(i) Specifications

Switching technology ......Solid-state GaAs elements

Type of system ...................Non-blocking (fan-out) or Combiner (fan-in) 

#### I/O Characteristics (SLX321)

Noise Figure ............<20dB @ 0dB gain (nominal)

Output IP3 .....>+10dBm

Signal connector . . . . . . . . . BNC or SMA

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 (command to action)
Power supply section ... Hot-Swap redundant supplies
Serial control port ... Serial (RS-232C, 422A or 485 multi-drop)

Ethernet port ......10/100BaseT 

Serial port connector ......DE-9S (D-Type female)

All active assemblies . . . . . . . Hot swap via hinged lockable front panel

Front panel display ........Touchscreen 10.1"

Configuration memory ......FLASH, and removable microSD 

Operating temp ..... 0 to +50C Non-operating temp ...-20 to +85C

Humidity ...... 0 to 95% (NC @ +25C) MTBF .....>75,000 hours (estimated) Software GUI ......RouteWarePRO included (1UL) Warranty ... 2 years standard, 5 years optional Certifications ... CE EN61010

\*\* NOTE 1: GPIB is also available using our GPIB-USB adapter. NOTE 2: If special or unique performance or features are required, the base model number is used plus a unique 5-digit suffix.

