Specification Sheet SLX128-001
High Performance 850-2150MHz L-Band Matrix
Up to 128-in, 128-out Fan-Out Switching Array
System SLX128 - 14RU

Preliminary - March 2016

General

Critical communication installations demand dependable State-of-the-Art equipment. The SLX128 large format modular L-Band matrix unit provides the systems professional with an uncompromising combination of high performance and high reliability switching coupled together for 850-2150MHz performance (850-2450 extended version). Standard redundant hot-swap power supplies plus optional redundant system control interfaces (C3 CPU) deliver the ultimate in system reliability for critical applications.

Compact (14RU) and high performance, the unit provides a cost effective, flexible switching capacity for smaller installations. The unit can be configured up to a 128x128 delivering a non-blocking (fan out) switch array. Reduced sized versions (depopulated) are also available to reduce overall costs. Larger configurations up to 512x512 are available by cascading multiple units with a common control for simple system management.

Complete control and status of the unit is available at both the large touchscreen front panel controls or the remote interface(s). All modules and assemblies 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 tri-stage switch technology
- SMA or BNC signal connector types
- Impedance 50 or 75 ohm
- Redundant hot-swap power supplies
- Single or dual controllers (and control ports)
- Available in Fan-Out or Fan-In (combiner) versions
- Ethernet, USB and Serial control ports
- SNMP v2, TCP/IP, and web browser control
- Built-in continuous diagnostics
- Variable (programmable) gain optional
- Field configurable serial port (RS-232C/422A/485)
- International AC power input
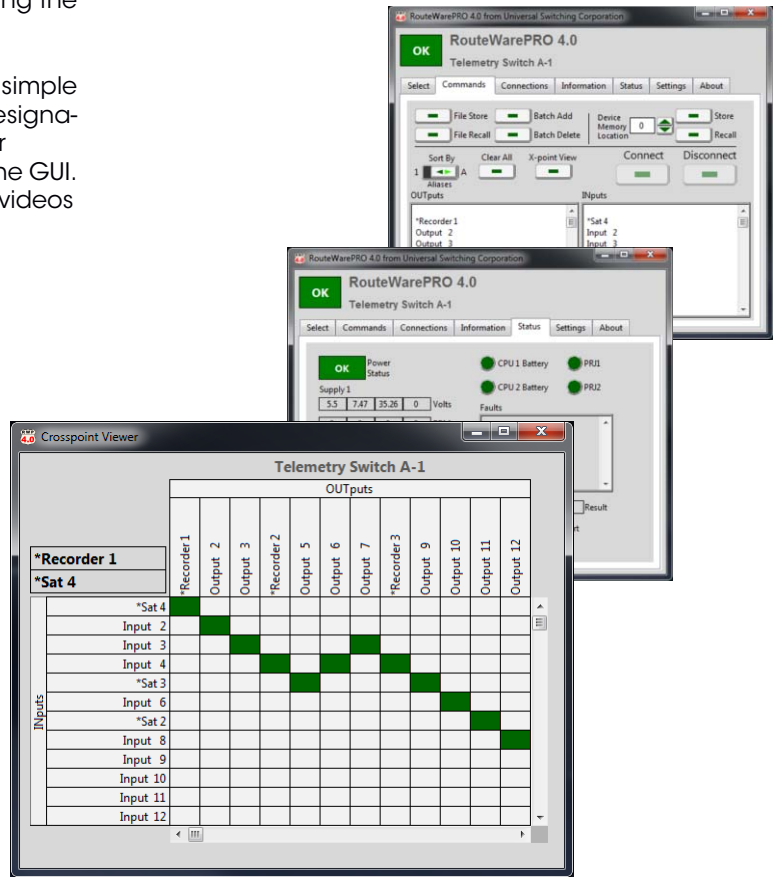- LabVIEW drivers and control software available

Made in the USA

Since 1992
Quality Innovation Commitment
ISO 9001:2008 Certified

Front View - 14RU

Advanced C3 Controller
Single or Dual

SLX128-2016-03

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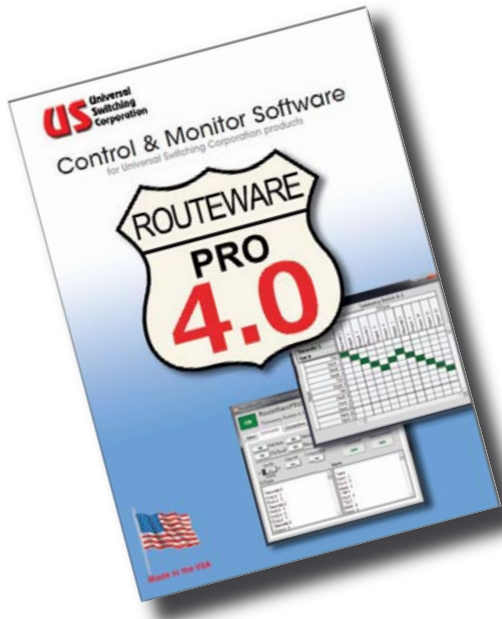Page 1

System Control Software - INCLUDED

The SLX128 comes with our RouteWarePRO control software package that will get you up and running in minutes. Within minutes, you can install the software and start controlling the SLX128 switching system remotely.

The user can customize the GUI on the fly, or by editing simple text files. Screen colors, input and output channel designations, panel names and labels can be easily added or changed too, or even the title displayed at the top of the GUI. Examples are provided on the installation media and videos are on our website.

System SLX128 Specifications

Array size . . . . .Up to 128in x 128out non-blocking array
Switching technology . . . . . .Solid-state GaAs elements
Type of system . . . . .Non-blocking full fan-out
Architecture . . . . .Modular Tri-Stage (redundancy)
Signal connector location . . .Rear panel

I/O Characteristics

Frequency range . . . . .850 - 2150MHz (850-2450MHz extended)
Impedance . . . . .50 ohm (75 optional)
Coupling . . . . .AC
Gain .Unity (0dB +/-1dB nominal)
Programmable gain . . . . . . .Optional
Flatness . . . .<+/-2.5dB
Isolation . . . .>60dB (I/I, O/O, I/O)
Input return loss . . . .>14dB typ
Output return loss . . . .>14dB typ
-1dB compression . . . .+3dBm min
Noise Figure . . . .<24dB10
Output IP3 . . . .>10dBm
Signal connector . . . . .SMA female, BNC optional

** 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.

General Specifications

Switching speed . . . .<10mS
Power supply section . . . . .Hot-Swap redundant supplies
Power supply monitoring . . . .Included
Serial control port . . . . .Serial (RS-232C, 422A or 485 multi-drop)
Ethernet port . . . . .10/100BaseT, SNMP v2 and TCP/IP
Serial port connector . . . . . . .DE-9S (D-Type female)
USB Port . . . . .2.0 **
Redundant controllers . . . . . . .Optional (hot swap)
Input and output cards . . . . .Hot swap
Status LED's . . . . .Front panel
Front panel display . . . . .Touchscreen 10.1"
Configuration memory . . . . . .FLASH
Cooling . . . . .Fan assisted
AC power requirements . . . . .90-264VAC, 47-440Hz, <700 Watts
Line protection . . . . .Resettable circuit protectors
Weight . . . .<115 lbs
Size . . . . .24.50H x 24.50D x 19.00W (14RU)
Operating temp . . . . .0 to +50C
Non-operating temp . . . .-20 to +85C
Humidity . . . . .0 to 95% (NC @ +25C)
MTBF . . . .>15,000 hours (estimated)
Warranty . . . . .2 years
Certifications . . . . .CE EN61010