Universal Switching Corporation

Specification Sheet RSX4-001
High Reliability Redundancy Switcher (up to 18GHz)
Single, Dual or Quad Channel
System RSX4 (two slots) - 1RU

March 2017

General

High value satellite communication assets require high reliability equipment. Our all new RSX4 is designed to be a drop-in replacement for our field proven 1094xB units in control, capability and performance. Standard features include front panel display, manual buttons, redundant power supplies and is available in AC or AC/DC powered versions. It is designed as the "gold standard" in system reliability for critical SatCom applications.

The unit consists of an RSX4 "universal chassis" that features two rear facing slots. Slots (one or both) can be populated by a choice of redundancy function modules and easily reconfigured in the field as needs change.

Compact (1RU) and high performance, the unit provides a cost effective switching capacity for up to four redundancy channels. Complete control and status of the unit is available at the built-in web browser, front panel controls. alarm inputs, or the 10/100 Ethernet port.

Since 1992
Quality
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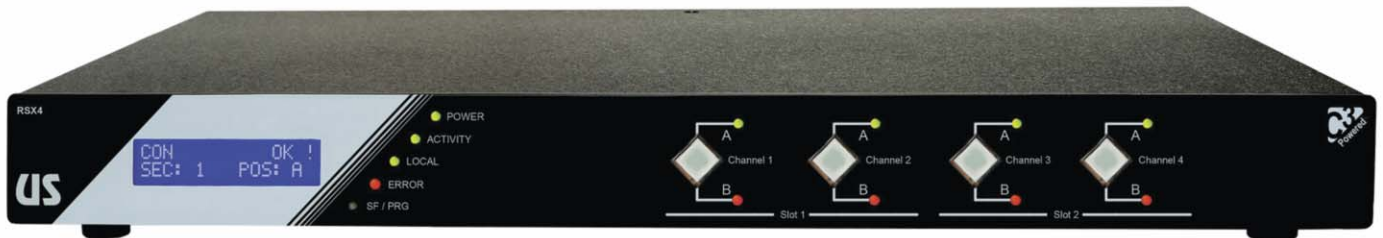Commitment
ISO 9001:2008
Certified

Applications

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

Features

- High reliability switch technology (relay or solid-state)
- SMA or BNC signal connector types
- Impedance 50 or 75 ohm
- Designed for ultra reliability
- Rugged 1RU construction
- Redundant power supplies
- Dual independent AC circuits
- Two module ports
- Ethernet control port (10/100)
- SNTP, SNMP v1/v2, TCP/IP, and web browser control
- Built-in diagnostics
- International AC power input
- LabVIEW drivers available

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Model RSX4
Redundancy Switcher
(1RU)

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Modular: Plug-in Elements

The RSX4 has two rear facing slots that accept one or two RSX4 plug-in elements. They can be mixed and matched to your requirement, or to reconfigure as your needs change.

Specifically designed for ultra reliability, the unit has redundant monitored power supplies, manual front panel control (and display), 10/100 Ethernet port, multi-serial port, and also direct TTL alarm input port (TTL low changes port) for each section. We offer both relay-based elements and solid-state types depending what is needed.

Module Type	Frequency Range	Features
XRSX4-R001-25C	DC-900MHz	Two 2x1 relays, BNC connectors, 50 ohm
XRSX4-R001-27C	DC-900MHz	Two 2x1 relays, BNC connectors, 75 ohm
XRSX4-R003-25A	DC-3GHz	Two 2x1 relays, SMA connectors, 50 ohm
XRSX4-R004-25A	DC-6GHz	Two transfer relays, SMA connectors, 50 ohm
XRSX4-R005-25A	DC-18GHz	Two transfer relays, SMA connectors, 50 ohm
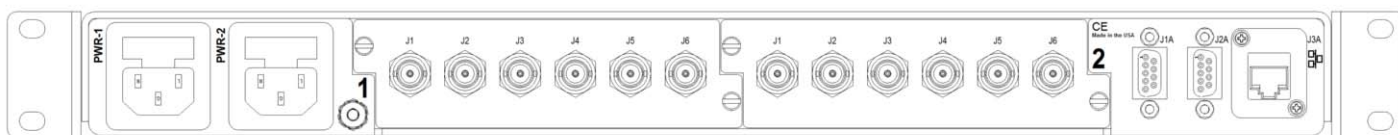
Model RSX4
Rear view shown with two XRSX4-R001-27C elements installed
(1RU)

System RSX4 Specifications

Capacity . . . . .2-Slots (two dual 2x1 elements)
Switching technology . . . . . . .Relay or solid-state available
Type of system . . . . .Redundancy (A/B)
Architecture . . . . .Modular
Signal connector location . . .Rear panel

** NOTE 1: 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 . . . . .Redundant
Power supply monitoring . . . .Included
Ethernet port . . . . .10/100BaseT, SNMP v1/v2 and TCP/IP
Serial port RS-232C/422A/485 (DE-9S)
Alarm input and driver . . . . . .4-channel alarm input & driver output (TTL)
Status LED's . . . . .Front panel
Front panel display . . . . .LCD
Configuration memory . . . . . .FLASH
Cooling . . . . .Convection
AC power requirements . . . . .90-264VAC, 47-440Hz, <25 Watts
AC inlets . . . . .Two (independent)
Optional DC input . . . . .Available
Line protection . . . . .Fuses @ AC inlets
Weight . . . .<9 lbs
Size . . . . .1.72H x 9.50D x 19.00W (1RU)
Operating temp . . . . .0 to +50C
Non-operating temp . . . .-20 to +85C
Humidity . . . . .0 to 95% (NC @ +25C)
MTBF . . . .>115,000 hours (estimated)
Warranty . . . . .2 years
Certifications . . . . .CE EN61010

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