

Specification Sheet S24530A

RS-530 Digital Matrix System S24530A

Scaleable from 3x3 to 24x24

March 2015

General

The S24530A is a digital switching array specifically designed for routing RS-530 signals, but with greatly enhanced performance. Typical RS-530 data communications operate in the 1-2Mbps data rate while the S24530A is capable of data rates exceeding 50Mbps. The unit's core technology is LVDS providing excellent digital bandwidth and performance parameters.

Configurations can be specified from 3x3 to as large as 24x24. Expansion is simple by adding plug-in cards at the rear of the unit.

Built-in features include redundant hot-swap power supplies, integrated rack mounting plus a powerful command and status protocol (488.2 compliant). With a global installation base, they are considered the next generation of switching systems to meet today's and tomorrow's needs for high performance and cost effective digital switching.



Applications

The advanced and sophisticated features of the S24530A systems allows them to be used in numerous applications:

- Ground stations
- Uplink or downlink signal routing
- Computer room installations
- Communication centers
- Satellite installations

Features

- High reliability all digital and solid-state technology
- Input and/or output terminations optional
- Up to 50Mbps digital bandpass (min)
- DCE and DTE signal connectors (DB25)
- Full access matrix with 1:1 connections (or fan-out)
- Expandable configuration from 3x3 to 24x24
- Hot-swap module technology
- Menu driven color touchscreen display
- Available with either single or dual CPUs
- 10/100 Ethernet, USB and Serial control ports
- Includes TCP/IP, SNMP, IPv4 & IPv6
- Removable microSD card for secure environments
- Rugged 5RU high aluminum chassis (8.75")
- International AC power range
- Self-monitoring hot-swap plug-in supplies with PFC
- Integrated rack mount design (19 inch)
- Chassis slide mounting hardware (slides not included)
- Certified CE EN61010 (LVD)
- Compatible with RouteWarePRO control software

Advanced C3 Controller











7671 North San Fernando Road | Burbank CA 91505 USA Phn: +1 818-381-5111 Fax: +1 818-252-4846 Email: sales@uswi.com Web: uswi.com

System Details

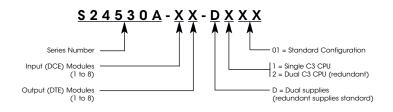
The System S24530A is a digital switch array specifically designed for routing RS-530 signals. Fully populated, this unique unit contains 24 DTE ports that can be connected to 24 DCE ports. All RS-530 signals are routed on the DB25 connectors. The unit is configurable from 3x3 to 24x24 in independent (DCE, DTE) increments of three ports.

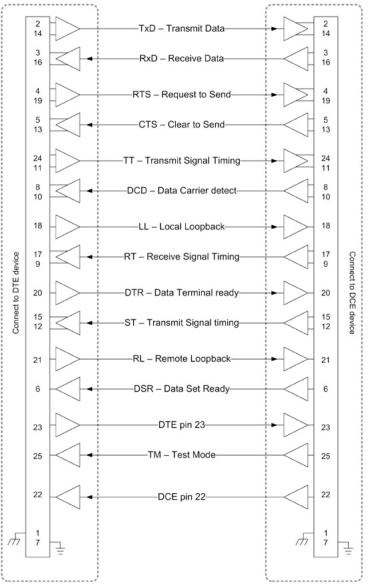
The 5RU rack mountable unit can be populated with up to eight DCE modules and eight DTE modules, each containing 3-ports. These modules install at the rear of the unit with the ports rear facing.

The units are equipped with cool-running hot-swap redundant power supplies and user friendly front panel display and controls. For remote operation, one or two (redundant) plug-in LXI certified 10/100 Ethernet modules are installed to remotely monitor system health, and to control the unit. Serial and GPIB control is optional.

System control options and switching configurations are stored in non-volatile memory. Up to 199 different switching configurations may be stored in memory and may be recalled with a single command. This greatly simplifies control of commonly used configurations. For power up conditions, the system can be set to recall the last configuration since power down, or to completely clear all crosspoint connections.

Model Number Assignment





Performance Specifications

Switching configurations.....3x3 to 24x24 (see above)

Configuration typeScalealbe Switching technology......LVDS core

Type of array......MxN blocking (1:1 connections)

Power to "ready"<5 seconds (no connections)

Command to action<20mS

General Specifications

Remote control1 or 2 C3 CPU (10/100, USB & Serial)

Power section	Hot-swap redundant supplies
Power supply monitoring.	Included
High temperature alarmIncluded	

Front panel colorFED-STD-595B #26440 (light gray)

Front panel thickness1/8"

Mounting......Chassis-Trak® mounting pattern

CoolingForced cooling with RPM monitoring VentingSide-To-Side

Size8.72"H x 19.00"W x 22.00"D Operating temp0 to +55C

Non-operating temp.....-20 to +75C

MountingRETMA slots (EIA), 5RU high

CertificationsCE EN61010 LVD

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

