

General

The S64530 digital switching array is specifically designed for routing RS-530 signals, but with greatly enhanced performance. The S64350X is identical but features our **Option X** which is a 10.1" touchscreen with additional control features and functionality. Typical RS-530 data communications operate in the 1-2Mbps data rate while the S64530 is capable of data rates exceeding 35Mbps. The unit's high performance digital core technology provides excellent digital bandwidth and performance parameters.

Configurations can be specified from 8x8 to as large as 64x64. Expansion is simple by adding plug-in cards at the rear of the unit, and cabling the included DCE and DTE panels.

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.



System S64530X
(shown with 10.1" display)



System S64530
(shown with 4.3" display)



Up to eight DCE and DTE modules install at the rear to provide a 64x64 matrix. The DTE and DCE connections are made at the 1RU passive I/O panels adding even more flexibility during system integration (cables included).



Applications

The advanced and sophisticated features of the S64530 systems allows them to be used in numerous applications:

- Encryption and decryption equipment
- Uplink or downlink modem connectivity
- Computer room installations
- Communication and security centers
- Satellite installations
- Specialized security devices

Features

- High reliability with all digital technology
- Input and/or output terminations optional
- Up to 35Mbps digital bandpass (min)
- DCE and DTE signal connectors (DB25)
- Full access matrix with 1:1 connections
- Expandable configuration from 8x8 to 64x64
- Multiple units supported for 128x128 matrix
- Independent 1RU DCE & DTE panels (passive)
- Hot-swap module technology
- Menu driven color touchscreen display & web browser
- Available with either single or dual CPUs
- 10/100 Ethernet, USB and Serial control ports
- Includes TCP/IP, SNTP, SNMP v1/v2, 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



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System Details

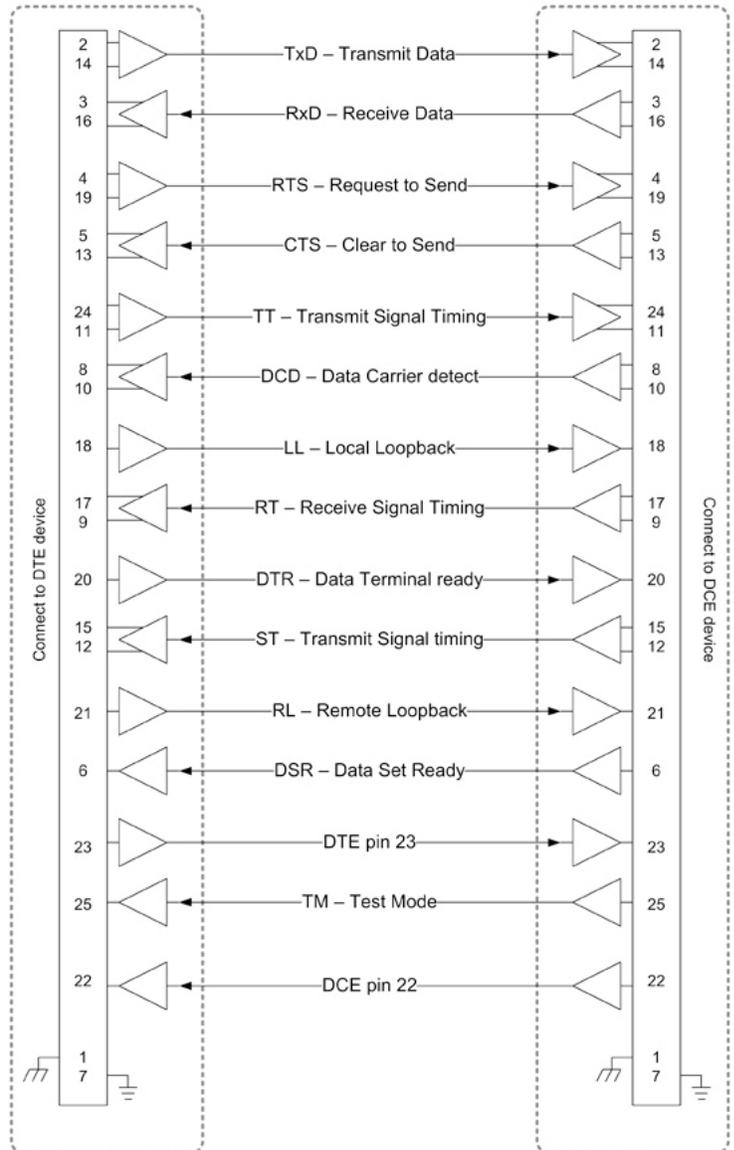
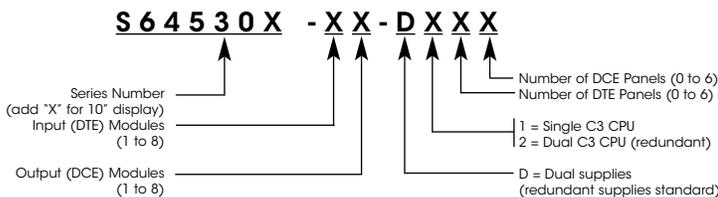
The System S64530(X) is a digital switch array specifically designed for routing RS-530 signals. Fully populated, this unique unit contains 64 DTE ports that can be connected to 64 DCE ports. All RS-530 signals are routed on the adapter panel DB25 connectors. The unit is configurable from 8x8 to 64x64 in independent (DCE, DTE) increments of eight ports.

The 5RU rack mountable unit can be populated with up to eight DCE modules and eight DTE modules, each containing 8-ports. These modules install at the rear of the unit with the ports rear facing. The 100-position SCSI-II connectors cable to the included 1RU rack mount DCE and DTE panels containing the DB25 connectors typical of RS-530.

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 C3 controller modules provide 10/100 Ethernet, multi-serial and USB ports to remotely monitor system health. To control the unit via GPIB is optional by adding external dongle(s).

System control options and switching configurations are stored in FLASH memory. Over 199 different switching configurations may be stored in memory and may be recalled with a single command. The "X" version with the 10.1" screen provides a large viewing area with realtime X-Point control and display plus other features.

Model Number Assignment



Performance Specifications

Switching configurations.....8x8 to 64x64 (see above)
 Configuration typeScalable
 Switching technology.....Digital core
 Type of arrayMxN blocking (1:1 connections)
 Signal typeEnhanced RS-530
 Signal connectors.....DB25P and DB25S
 Data rate supportedDC - 35Mbps (data)
 Signal coupling.....DC coupled
 Power to "ready".....<5 seconds (no connections)
 Command to action<10mS

General Specifications

Remote control1 or 2 C3 CPU (10/100, USB & Serial)
 Local controlColor touchscreen (4.3" or 10.1")
 Web browserIncluded
 Configuration memory199 locations (min)
 Unit firmwareField upgradable via Ethernet
 Control GUI.....Optional (RouteWarePRO)
 Software drivers.....LabVIEW VISA (download)
 AC power switch.....Inside of unit (2ea)
 AC power90-264VAC, 47 to 440Hz, <350W
 Power cordNEMA 15A (USA) 6 foot (2ea)

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
 Weight55lbs
 Size8.72"H x 19.00"W x 22.00"D
 Operating temp.....0 to +55C
 Non-operating temp.....-20 to +75C
 Humidity.....0 to 95% (non-condensing @ +25C)
 Altitude<10,000 feet ASL
 Mounting.....RETMA slots (EIA), 5RU high
 Chassis finish.....Black texture enamel & gold iridite
 HandlesBlack anodized
 MTBF.....>35,000 hours per MIL-STD-217E, N1
 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.