silex technology

SX-500

Serial Device Server

for ethernet and wireless connectivity

Why SX-500

Flexible
The SX-500 serial server family allows sharing serial devices on traditional or wireless networks. It can be ordered with a wireless option that provides 802.11g LAN connectivity in addition to the Ethernet. The provided Serial Port Emulator software allows for easy integration with existing PC applications.

Secure
The SX-500 serial servers include enterprise-level security features including access control lists, complete protocol and application enable/disable control, read and write configuration passwords, and SNMP community name configuration. The wireless models also add 802.1x Extensible Authentication Protocol (EAP) with Transport Layer Security (TLS), Tunneled Transport Layer Security (TTLS) Lightweight Extensible Authentication Protocol (LEAP); Protected Extensible Authentication Protocol (PEAP) or Flexible Authentication via Secure Tunneling (FAST); Open System or Shared Key support with Wired Equivalent Privacy (WEP) encoding; WPA (Wi-Fi Protected Access) Personal (WPA-PSK) and Enterprise modes, which utilize improved encryption via the Temporal Key Integrity Protocol (TKIP); and WPA2, which adds Advanced Encryption Standard (AES).

Rugged
The enclosure is made of rugged pre-plated galvanized steel with an IP40 industrial-grade rating. Side flange mounts allow for permanent installation on virtually any surface, or on a DIN rail using the optional DIN rail mounting bracket. The unit can withstand electrostatic discharges as high as 15 kV at the serial connector.

Easy to Manage
In addition to a built-in web browser interface, silex provides ExtendView, a Windows utility for easy configuration and management. A console accessible via TELNET or the serial port is available for more sophisticated diagnostics and configuration. The SX-500 series is also compatible with the Simple Network Management Protocol (SNMP) for compatibility with most popular network management systems. The included Serial Port Emulator software allows you to configure virtual serial ports on a Windows system (for example, COM3) that redirect all of the data out to the silex serial servers on your network allowing you to continue use of your current applications.

Tested for Maximum Compatibility
silex wireless serial servers have been tested extensively to support the security methods used in leading access points and radius servers.

Technical Specifications

Mechanical:
- Size: 125.73 x 75.11 x 24.08 mm   (4.95 x 2.957 x 0.948 inches)

Environmental:
- ROHS Compliant

Temperature:
- Operating Temperature: 0° to 50° C
- Storage Temperature: -20° to 70° C
- Maximum temperature change per hour: 20° C

Relative Humidity:
- Operating: 10% to 90% non-condensing
- Storage: 10% to 90% non-condensing

Altitude:
- Operating: 3.1 km
- Storage: 9 km

Enclosure:
- IP40 rating

Electrical:
Input power @ +5VDC:
- 500 mA max for wired
- 800 mA max for wireless option
- Provided power adapter or through Pin9

Standards Compliance:
- RS232 serial interface
- 802.11g (wireless version)
- 802.3i (10Base-T) and 802.3u (100Base-TX) Ethernet
- FCC & CE Class B EMC standards
- FCC Part 15 & CE wireless standards
- RFC 2217

Supported Protocols:
802.11g, ARP, TCP, Telnet, ICMP, SNMP, DHCP, BOOTP, Auto IP, HTTP, SMTP, TFTP, SLP, DNS, Dynamic DNS

Management and Utilities:
- Serial Port Emulator software
- ExtendView utility (GUI)
- Web browser interface
- Console accessible via serial port or TELNET
- Simple Network Management Protocol (SNMP) MIB I and II; IP
- Firmware downloads via TCP/IP (master mode tftp, slave mode TFTP, or BOOTP); multiple servers may be downloaded simultaneously
- On-line HELP

802.11g Wireless: (Optional)
- Security: WPA and WPA2 (personal and enterprise modes), PAP, MS-CHAPv2, 802.1x EAP with TLS/TTLS/LEAP/PEAP/FAST, WEP
- Variable data rates: 54, 48, 36, 24, 18, 12, 11, 9, 6, 5.5, 2 and 1 Mbps
- Frequency band: 2.4 GHz ISM Band
- Output power:
  • 802.11g mode: channel 2-10, 12, 13 = 15dBm
  • channel 11 = 14dBm
  • channel 1 = 12dBm
  • 802.11b mode: channel 1-14ch = 16dBm
- Range: 100 m
- RP-SMA connector with dipole swivel 2dB antenna

Typical End User Applications:
- Industrial automation
- Building automation
- Medical devices
- Security access and control
- Point of sale
- LED signs
- Any other M2M or SCADA application utilizing serial connectivity
- Serial printers
- Virtually any other products with a serial port

SX-500 Products

SX-500-0031	Wired; US power supply
SX-500-0033	Wired; Universal power supply with Euro cord
SX-500-1031	Wireless; US power supply, FCC Wireless Domain
SX-500-1033	Wireless; Universal power supply with Euro cord, ETSI Wireless Domain

Networking Example
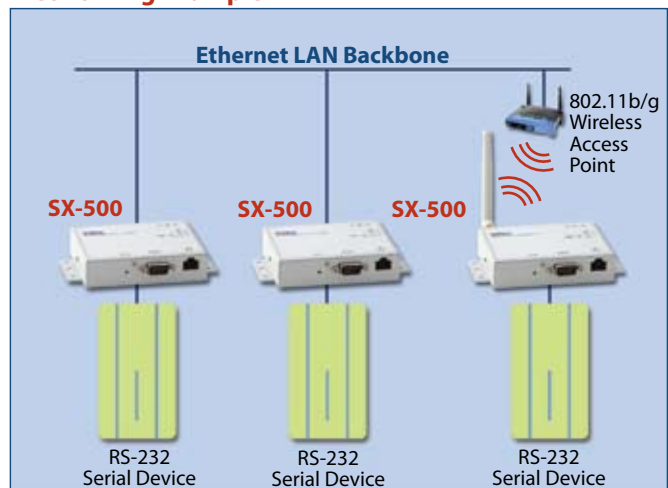
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