

SX-200

Print Servers

- Enterprise 10/100 Print Server
- Connect USB 2.0 High Speed and/or Parallel Port Printers to the network or wireless network
- 802.11a/b/g Wireless LAN models
- Robust security including WEP, WPA, WPA2, EAP-LEAP, EAP-PEAP, EAP-FAST, EAP-TLS, EAP-TTLS



Easily share a USB 1.1, 2.0 printer and/or a parallel printer on an ethernet or fast ethernet network

The SX-200 print server allows you to easily share a USB 1.1 or 2.0 printer and/or a 1284-compatible bi-directional parallel printer on an wired or wireless local area network. The Wireless models includes 802.11a/b/g wireless LAN connectivity in addition to the auto-sensing 10baseT/100baseTX Ethernet connection.

Features & Benefits:

High Performance

With the innovative SX-200 print server, you can take advantage of your printer's maximum speeds. It can increase user productivity by shortening print waiting times, and the high performance architecture also reduces network congestion because the print jobs move out of the printer queue and off the network quicker. The wireless version includes a dual-band (2.4/5GHz) tri-mode 802.11a/b/g wireless radio allowing you to connect at the maximum speed of your wireless network on the frequency bands with the least amount of traffic.

Secure

The SX-200 print 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).

Easy to Use

The SX-200 is easy to use with many different options for configuration and management. The included ExtendView Windows utility includes wizards for setup, configuration and management of multiple silex print servers at the same time. The SX-200 built-in web browser interface allows monitoring and configuration from any computer with a standard web browser.

Versatile

The SX-200 allows you to print from multiple computer and network operating systems simultaneously, including Windows, UNIX, Linux, Solaris, Netware, Macintosh, OS/2, DEC LAT and more. On the USB models, the USB 2.0 Hi-Speed port connects

virtually any USB printer including those with USB 1.1, USB 2.0 Full Speed, and USB 2.0 Hi-Speed connections. On the parallel port models, IEEE1284 parallel port is compatible with virtually any parallel printer port mode including High Speed ECP with bi-directional communication. The SX-200 Wireless models let you take advantage of your existing wireless infrastructure giving you flexible printer deployment where running cables is impractical or too expensive, or where the printer must be frequently moved. The dual band tri-mode radio gives you the ability to access your printer via 802.11a, 802.11b, and 802.11g wireless local area networks. A printer mounting kit, a desktop mounting kit, and the USB cable (on USB models) are included.

Technical Specifications:

Electrical:

- Input power: 1A@12VDC

I/O:

- USB 2.0 Hi-Speed (compatible with USB 1.1 and 2.0 full speed and Hi-Speed)
- 1284-compatible bi-directional parallel port
- 10baseT/100baseTX Auto-Sensing Ethernet
- 802.11a/b/g Wireless LAN (with Wireless version only)

Environmental:

- ROHS Compliant

Temperature:

- Operating temperature: 0 ° to 50 ° C
- Storage temperature: -20 ° to 60 ° C
- Maximum temperature change per hour: 20 ° C

Altitude:

- Operating: 3.1 km
- Storage: 9.1km

Relative Humidity:

- Operating: 10% to 90% non-condensing (40 to 60% recommended)
- Storage: 10% to 90% non-condensing

802.11a/b/g Wireless (Wireless versions only):

- Variable data rates up to 54 Mbps
- Frequency band: 2.4/5 GHz
- WPA and WPA2 (personal and enterprise modes)
- 802.1x EAP with TTLS/LEAP/PEAP
- Wired equivalent privacy: 128-bit, 64-bit (compatible with 40-bit), none
- Range: 100 m
- Reverse PIN SMA L-type swivel dipole dual band antenna

Network Ports:

- Supports standard Ethernet/Fast Ethernet connections: twisted-pair
- RJ45 (10/100Base-T)
- 802.11a/b/g Wireless LAN (with Wireless version only)

Protocols:

TCP/IP and Windows

- Supports lpr/lpd network printing protocol
- Supports raw printer port (for example, Port 9100)
- Supports NetBIOS over IP and NetBEUI
- Supports telnet and ftp
- Supports SNMP MIB I & II
- Supports IPP protocol (Internet printing)
- Supports peer-to-peer printing (direct printing) via the Microsoft DLC,
- TCP/IP or IPX/SPX protocols with ExtendNet Connect

EtherTalk Mode:

- Supports Macintosh System 6.X, 7.X, 8.X, 9.X, MacOS 10.X
- Supports EtherTalk Phase 2
- Supports Apple LaserWriter driver 8.X and above (PostScript printer required)
- Supports PostScript-compatible laser printers
- Supports most HP, Epson, and Canon inkjet printers

NetWare Mode:

- Simultaneously supports Novell NetWare, NDS & NDPS
- Supports NDPS via Novell's Generic Gateway or HP's Printer Gateway
- Supports packet signatures, checksums and aliasing
- Supports dedicated print server and remote printer modes
- Supports encrypted passwords
- Supports up to eight file servers and up to 32 queues
- Supports automatic file server reattachment

LAT Mode:

Print Server Management Tools:

Enterprise Management Tools

- Supports PC-based SNMP applications (For example, HP OpenView, IBM NetView and Sun SunNet Manager)
- Supports Private MIB

LAN Administration Tools

- ExtendView Utilities – silex utilities which provide simple configuration and management capabilities.
 - ExtendView also displays system, network and printer status information via SNMP traps

- ExtendView for TCP/IP
- ExtendView for NDS (snaps into Novell NWAdmin)
- ExtendView for NetWare
- ExtendView for UNIX (Linux 2.0.34, Solaris 2.6, SunOS 4.1.3, HP-UX 10.20)

- **NetworkAlert™ Utilities** – silex utilities which assist in managing network printers by proactively alerting you of printer problems via SNMP traps. Integrates into ExtendView for advanced diagnostic and configuration information.
- **XAdmin32, XAdmin** – Compatibility with legacy silex Print Server Administration utilities.
- **WebXAdmin** – Web Browser allows print server configuration and management HP JetAdmin and HP.
- **Web JetAdmin** – allows print server configuration and management Novell ManageWise.

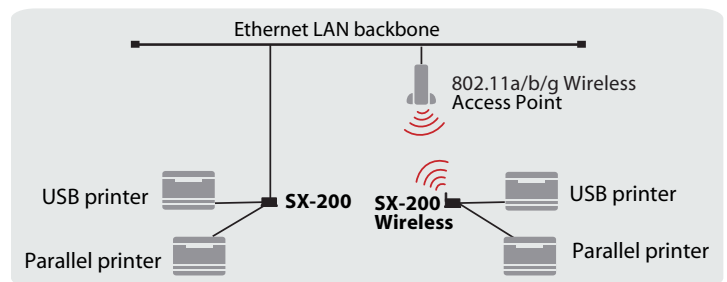
User Printing Status and Monitoring

- HP JetAdmin and Web JetAdmin for printer and print server status information
- WebXAdmin for printer and print server status information

Other Features:

- LED's to indicate power-on, link, activity
- lpd-Plus virtual printer capability (allows complex user-defined setup and reset strings configurable on a per-service basis)
- Text-to-PostScript conversion on a per-service basis
- Programmable character string conversion
- IP security (ability to restrict access to print server based on IP address)
- Configurable TCP port numbers on a per-service basis
- IP address configuration via arp, rarp, DHCP, BOOTP, silex ExtendView, HP JetAdmin/Web JetAdmin, NetWare, and DEC MOP
- Automatic detection of NetWare frame type or frame type can be forced AppleTalk "spoofing" for support of non-bidirectional PostScript printers
- AppleTalk binary printing (requires that printer supports the HP Tagged Binary Communications Protocol or can be forced into binary mode)
- On-line HELP
- Sophisticated diagnostics, including protocol trace capability

Networking Example:



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silex global sales & support locations



US Office
silex technology america, Inc.
 +1-801-748-1199
 US toll free 866-765-8761
 www.silexamerica.com
 contact@silexamerica.com

Europe Office
silex technology europe GmbH
 +49-2159-67500
 German toll free 0800-743938
 www.silexeurope.com
 contact@silexeurope.com

China Office
silex technology beijing, Inc.
 +86-10-6440-3958
 www.silex.com.cn
 contact@silex.com.cn

Corporate Headquarters
silex technology, Inc.
 +81-6-6730-3751
 www.silex.jp
 support@silex.jp