



## SX-350 OEM Internal Print Server

- Complete internal OEM network printing solution
- 802.11a/b/g wireless and 100Base-T/10Base-T Ethernet
- Works with all major operating systems and network operating systems
- Minimal hardware and firmware changes required in OEM printer

### Easy-to-Use Wireless and Wired Networking for OEM Printers

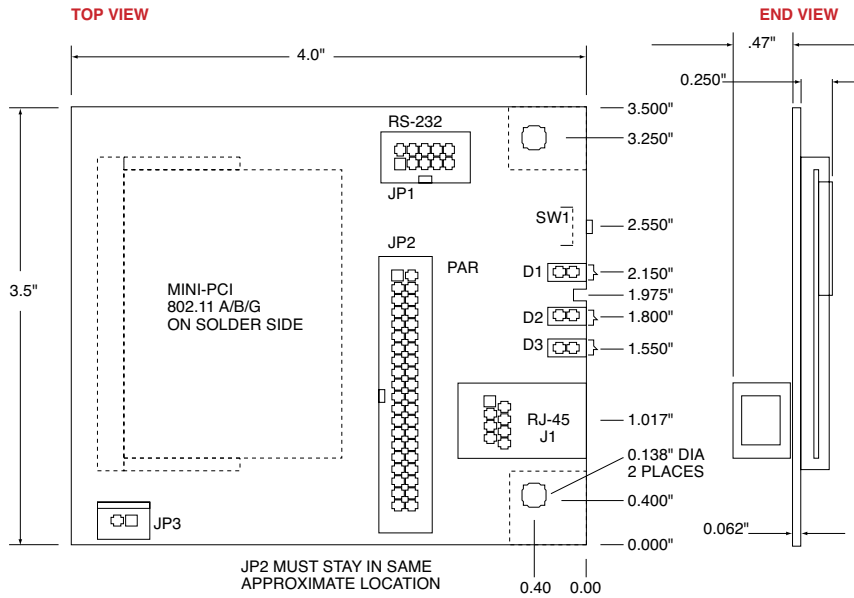
The SX-350 is an internal multiprotocol print server designed to allow OEM printer manufacturers and printer controller manufacturers to easily add wired and/or wireless network printing capabilities to their products. It is a small board-level product that mounts inside the printer and includes:

- Centronics/IEEE1284 parallel port (40-pin ribbon cable connector)
- 802.11a/b/g wireless radio module (wireless models only)
- RJ45 Ethernet jack (autosensing 100Base-T/10Base-T)
- RS-232 serial port (for console terminal configuration)
- 3 status LEDs
- Pushbutton reset switch

The SX-350 is based on proven print server technology from Silex Technology, Inc., the world's leading manufacturer of OEM print servers, so you can be assured of the highest quality and maximum reliability.

### SX-350 Features and Benefits

FEATURE	BENEFIT
40-pin Centronics/IEEE 1284 parallel port interface to printer	OEM can use standard cabling to connect SX-350 with little or no hardware or firmware modifications required in the printer
802.11a/b/g wireless radio model	Allows OEM to network portable printers and to locate printers where cabling is difficult or impossible
Compatibility with all major operating systems, network operating systems, and printing methods	OEM can sell his printers into virtually any type of customer environment
JetAdmin and Web JetAdmin management software support	Allows OEM printers to be managed by the world's most popular printer network management software
Sophisticated security features, including 802.1X authentication, plus all major wireless security protocols	Allows OEM to sell printers into virtually any type of customer network
UART (RS-232) serial port	Provides a method for configuring the print server without a network connection; can also be used as an interface to the printer's front panel configuration subsystem



**Parallel Port Interface**

A 40-pin (2x20) header is used to interface to a printer via flat ribbon cable. The parallel port controller must have a +5V tolerant interface to the printer. Pin assignments are as follows:

PIN	SIGNAL	I/O	PIN	SIGNAL	I/O
1	Strobe	Output	2	Ground	
3	Data 0	I/O	4	Ground	
5	Data 1	I/O	6	Ground	
7	Data 2	I/O	8	Ground	
9	Data 3	I/O	10	Ground	
11	Data 4	I/O	12	Ground	
13	Data 5	I/O	14	Ground	
15	Data 6	I/O	16	Ground	
17	Data 7	I/O	18	Ground	
19	Acknowledge-	Input	20	Ground	
21	Busy	Input	22	Ground	
23	PE	Input	24	Ground	
25	Select	Input	26	Plinit-	Output
27	AutoFeed-	Output	28	FaultIn-	Input
29	N/C		30	Ground	
31	Ground		32	N/C	
33	Ground		34	N/C	
35	+5VDC		36	SelectIn-	Output
37	+5VDC		38	Ground	
39	+5VDC		40	Ground	

**Serial Port Interface**

The serial port UART is accessible via a 2x5 0.1" pitch header. Pinouts are as follows:

PIN	SIGNAL	I/O	PIN	SIGNAL	I/O
1	No Connect		2	No Connect	
3	RXD-	Input	4	No Connect	
5	RXD-	Output	6	No Connect	
7	No Connect		8	No Connect	
9	Ground		10	No Connect	

**Power**

Power is input to the main module is via the 40-pin header pin 35 or a 2-pin locking vertical header. Power input is +5.0VDC +/- 10%.

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**Technical Specifications**

**Dimensions:**

- 4" x 3.5" x .782" (101.6 x 88.9 x 19.9 mm)

**Interface:**

- All models: Ethernet 100Base-TX/10Base-T (auto-sensing); IEEE1284 (Centronics compatible) bidirectional parallel port; UART serial port
- Wireless models: 802.11a/b/g (54Mbps/11Mbps/54Mbps)

**Power:**

- +5.0VDC +/- 10% (via 40-pin header or 2-pin locking vertical header)

**Environmental:**

- Temperature:
  - Operating temperature: 0° to 70° C
  - Storage temperature: -40° to +85° 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
- ROHS Directive 2002/95/EC compliant
- Agency regulatory compliance:
  - Designed and screened for FCC FCC, CE, VCCI Class A EMC compliance
  - Designed and screened for FCC Part 15, CE, TELEC wireless standards compliance
  - Actual regulatory compliance is responsibility of OEM

**Network Printing/Management Support:**

- Operating system support: Windows, Macintosh, UNIX, Linux, OpenVMS, OS/400, and most other types of host computers and operating systems
- Protocol support: TCP/IP, NetWare, AppleTalk, NetBIOS/NetBEUI, and DLC/LLC
- TCP/IP application protocols: BOOTP, rarp, DHCP, tftp, arp/ping, SNMPv1/v2, IPP, lpr/lpd, TELNET, FTP, raw TCP, http
- Configuration/management: ExtendView Windows utility, web browser, TELNET, serial port, SNMP (including SNMP traps), e-mail alerts, HP JetAdmin and Web JetAdmin

**Network Security:**

- Wired and wireless security: 802.1X authentication (TLS, TTLS, PEAP, LEAP, and FAST support), configuration passwords, access control lists, and protocol enable/disable
- Wireless security: WPA2, WPA2-PSK, WPA, WPA-PSK, and WEP

**Ordering Information:**

- SX-350-0011: OEM print server, 100Base-T/10Base-T Ethernet
- SX-350-1011: OEM print server, 100Base-T/10Base-T Ethernet and 802.11a/b/g wireless

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