



ZebraNet® Print Server Family

Ethernet Connectivity Solutions for
Zebra® Bar Code Printers

Advanced Connectivity for Advanced Printers

How do you make Zebra bar code printers even better? Add ZebraNet print servers, which deliver enhanced connectivity solutions to meet the needs of evolving network environments.

Zebra Everywhere and Anywhere

Need location-independent printing minus the hassle and cost of recabling? Use the 802.11b/g compliant ZebraNet Wireless Plus, with advanced authentication and encryption protocols, to enjoy ultimate mobility with reliable network and data security. Or—attach your printers to an external, 802.11g ZebraNet PS4000™ wireless print server.

For flexible connectivity options, get ZebraNet 10/100 Print Server for 10Base-T, 100Base-TX, and fast Ethernet 10/100 auto-switching networks, or the ZebraNet PrintServer II for cost-effective Ethernet connectivity to 10Base-T and Novell IPX/SPX networks.

High-Speed Printing and Networking

Rely on Zebra to meet your high-speed printing and networking needs. All ZPL®-based Zebra printers enabled with ZebraNet print servers offer optimal integration for today's network environment with easy setup and configuration via Zebra advanced printer management tools.

Zebra now offers you a choice in print server products to make the world's best printers even better:

- Flexible 10/100 Ethernet connectivity for high-performance and industrial-strength printers
- Secure wireless network connectivity for location-independent printer operations anytime, anywhere
- The new PS4000 makes any desktop or tabletop printer wireless, enabling a cart-based mobile solution
- 10Base-T Ethernet connectivity for value-priced, compact desktop printers
- Effortless installation and centralized connectivity and control via Zebra advanced printer management



ZebraNet Print Server Family

Ethernet Connectivity Solutions



ZebraNet Wireless Plus

ZebraNet Wireless Plus offers a high level of wireless security for *XIIIPlus™*, *105SL™*, *S4M™*, and *ZM400™/ZM600™* printers and *PAX4™* print engines for free, flexible movement and re-configuration of printers as business needs require. With 802.11b/g wireless communications protocol, in combination with advanced authentication and encryption, ZebraNet Wireless Plus offers a secure wireless connectivity option for location-independent printer operation.

OPERATING CHARACTERISTICS

Wireless Network Connection

Wireless network compatibility - IEEE 802.11b/g
Data Rates Supported - 1, 2, 5.5, 11, and 54 Mbps
Wireless Medium DSSS (Direct Sequence Spread Spectrum)
Frequency Band - 2.4 to 2.4897 GHz

Radio Cards

See page 4 for selected Cisco® and Motorola® radio card models.

Security

Refer to radio card securities supported on page 4.

Network/Print Server Connection

Auto senses IEEE- 802.3, Ethernet II, IEEE- 802.2, and IEEE 802.2/SNAP frame formats

User Interface

Link Status Indicator - real-time display of the printers network status.
Wireless Signal Indicators

ADDITIONAL TOOLS SUPPORT

Configuration via ZebraNet™ Bridge Enterprise remote printer management software and Telnet

OTHER FEATURES

Power

Power provided by the printer

Environment

Operates to the environmental specifications of the printer.

Agency Approvals

Safety: UL 1950; IEC 950; CSA 950-95; EN 60950: 1995
CE: CISPR 22 (-B); CE Compliance; EN 55024:1998; EN 61000-3-2, -3-3
FCC: (Class B – XIII only); FCC (Class A – XII); Canadian Doc. (Class A)

Warranty

One year

ZebraNet 10/100 Print Server

ZebraNet 10/100 Print Server is available in an internal or external version that provides a complete wired solution for 10Base-T, 100Base-TX, and fast Ethernet 10/100 auto-switching networks. When paired with the industrial-strength Zebra *XIIIPlus*, *105SL*, *S4M*, *Z4Mplus™/Z6Mplus™* and *ZM400/ZM600* printers with enhanced ECP parallel support, it offers greater data transmission speeds for faster throughput.

OPERATING CHARACTERISTICS

Auto senses IEEE- 802.3, Ethernet II, IEEE- 802.2, and IEEE 802.2/SNAP frame formats

Ethernet 10Base-T and 100Base-TX UTP RJ45 connection
Auto senses full- and half-duplex communications

Printer Connection

Bi-directional, IEEE- 1284 Centronics® parallel port (Compatibility, Nibble, and ECP)

User Interface

Test button: diagnostic test and configuration printing
Activity indicators: bi-color display of operational status; bi-color display of speed and network activity

Electrical

Maximum 750mA at 5.25VDC
Nominal 475mA at 5VDC
Power provided by the printer (Centronics pin 18, 5VDC at 475mA)

OTHER FEATURES

Physical Characteristics

Width: 2.8" / 71.12 mm
Length: 3.2" / 81.28 mm
Height: 1.2" / 30.48 mm
Weight: 2.7 oz / 77 g

Environment

Operating Temperature: 32° F/0° C to 104° F/40° C
Storage Temperature: -40° F/-40° C to 140° F/60° C
Operating Humidity: 25 to 85% non-condensing
Storage Humidity: 5 to 85% non-condensing

Agency Approvals

CISPR 22 Class B; Canadian Doc.; FCC Class B; EN55024; AS/NZS3548

Warranty

One year

ZebraNet Print Server Family

Wired and Wireless Connectivity Solutions



ZebraNet PrintServer II

ZebraNet PrintServer II is ideal for desktop printers on a 10Base-T or Novell® IPX/SPX network and offers easy remote management for ZPL-based printers via Zebra printer management. This external print server conveniently connects to the printer's parallel port and obtains power directly from the printer—external power supplies not required!

OPERATING CHARACTERISTICS

Auto senses IEEE- 802.3, Ethernet II, IEEE- 802.2, and IEEE 802.2/SNAP frame formats

Ethernet 10Base-T UTP RJ45 connection

Printer Connection

Bi-directional, IEEE- 1284 Centronics parallel port (Compatibility, Nibble, and ECP)

User Interface

Test button: diagnostic test and configuration printing

Activity indicators: bi-color display of operational status

Electrical

Power provided by the printer (Centronics pin 18, 5VDC at 200mA)

ADDITIONAL SYSTEM SUPPORT

Novell NetWare®: Netware 3 and 4 (NDS and Bindery)

Simultaneous support for NetWare NDS and NDPS; Novell Generic Gateway and HP® Printer Gateway; Dedicated Print Server and remote Print Server modes. Up to eight file servers and 32 queues; Print Protocols and Methods: IPX: NDS, SPX, Pserver, SPX Direct Print

OTHER FEATURES

Physical Characteristics

Width: 2.5" / 63.5 mm

Length: 3.6" / 91.4 mm

Height: .8" / 20.3 mm

Weight: 2.5 oz / 71 g

Environment

Operating Temperature: 32° F/0° C to 104° F/40° C

Storage Temperature: -40° F/-40° C to 140° F/60° C

Operating Humidity: 25 to 85% non-condensing

Storage Humidity: 5 to 85% non-condensing

Agency Approvals

CISPR 22 Class B; Canadian Doc.; FCC Class B; EN55024; AS/NZS3548

Warranty

One year

ZebraNet PS4000

ZebraNet PS4000 takes Zebra desktop, tabletop, or RFID printers—and even USB 2.0-enabled laser or inkjet printers—and turns them into a mobile solution wherever you need to go wireless.

With secure 802.11g wireless connectivity for up to four USB devices, the new ZebraNet PS4000 wireless print server eliminates the hassle of installing wires around a retail or warehouse operation.

OPERATING CHARACTERISTICS

Connectivity

IEEE 802.11g (CF format)

Four TCP/IP ports

10-pin RS232 communications port for setup

Security

802.11i/ WPA2, EAP-TLS, EAP-TTLS, IEEE 802.1X Authentication schemes, WPA-PSK, WPA-LEAP, WPA-PEAP, WPA-EAP/FAST, VPN, and more!

User Interface

6 LED indicators for printer status.

Optional LCD for monitoring network and battery status.

Memory

8 MB RAM and 4 MB Flash

Power

AC adapter

Server Input Range: 10V nominal to 24V nominal

Wide DC input voltage allows various powered carts or LA-24 battery pack compatibility

OTHER FEATURES

Environment

Vibration resistant for cart- based environments

Operating Temperature: 32° F/0° C to 104° F/40° C

Storage Temperature: 14° F/0° C to 104° F/40° C

Operating and Storage Humidity: 20% to 80%, non-condensing.

Agency Approvals

United States (FCC), Industry Canada (IC), Australia/New Zealand (C-Tick), Mexico (NOM/NYCE), EU/EFTA (CE)

Warranty

One year

Print Server Family

Specifications at a Glance*



ZEBRALINK™ SOLUTIONS

Software

ZebraDesigner™ Pro
 ZebraDesigner for XML
 ZebraNet™ Bridge Enterprise
 ZebraNet Utilities v 7.0
 Zebra Universal Driver

Networking

ZebraNet Wireless Plus
 ZebraNet 10/100 Print Server
 ZebraNet PrintServer II
 ZebraNet PS4000 Wireless Print Server

Firmware

ZPL® and ZPL II®—Universal language for Zebra printers. Simplifies label formatting and enables format compatibility with other Zebra printers.
 Web View—Enables you to connect and control your bar code printer's Web interface using a common Web browser.
 Alert—Printers equipped with ZebraNet print servers will notify you via any email-enabled, wired, or wireless device to minimize downtime.

STANDARD FEATURES

Logical Printer Support
 SMTP
 POP3
 Zebra MIB Support

SYSTEM

Microsoft® Windows® 95/98/Me/NT/2000/XP

Client mode for peer-to-peer printing via TCP/IP
 Print Protocols and Methods (all simultaneously active): TCP/IP: LPR/LPD, Telnet, FTP, IPP v1.0, Raw printer port (port 9100)

UNIX®, Linux®, Novell®, and Other Systems Supporting TCP/IP

Print Protocols and Methods (all simultaneously active): TCP/IP: LPR/LPD, Telnet, FTP, IPP v1.0, Raw printer port (port 9100)

ADMINISTRATION PROTOCOLS

TCP/IP: ARP, RARP
 TCP/IP and UDP: DHCP, BOOTP, SNMP v1.0
 HTML v3.2
 HTTP v1.0

For More Information

Contact your Zebra representative for additional specifications. To learn more about innovative Zebra products, call +1 800 423 0442, or visit our Web site www.zebra.com.

Compatibility Matrix

Current Printer Models**	ZebraNet Wireless Plus print server	ZebraNet 10/100 Print Server	ZebraNet PrintServer II	ZebraNet PS4000 Wireless Print Server
<i>Xi</i> ™ series	1, 2, 4	1, 2, 3, 4	1, 2, 3, 4	3
<i>PAX4</i> ™ series	1, 2, 4	1, 2, 3, 4		3
105SL™	1, 2, 4	1, 2, 3, 4	1, 2, 3, 4	3
ZM400™/ZM600™	1, 2, 3	1, 2, 3, 4	3, 4	3
Z4Mplus™/Z6Mplus™		1, 2, 3, 4	1, 2, 3, 4	3
S4M™	1, 2, 4	1, 2, 3, 4	3	3
R110 <i>Xi</i> ™	1, 2, 4	1, 2, 3, 4	1, 2, 3, 4	3
R170 <i>Xi</i> ™	1, 2, 4	1, 2, 3, 4	1, 2, 3, 4	3
R110 <i>PAX4</i> ™		1, 2, 3, 4	1, 2, 3, 4	3
R4Mplus™		1, 2, 3, 4	1, 2, 3, 4	3
R2844-Z™			2, 3, 4	3
TLP 2844™ and LP 2844™			2, 3	3
TLP 2844-Z™ and LP 2844-Z™			2, 3, 4	3
TLP 2824™ and LP 2824™			2, 3	3
TLP 3842™			2, 3	3
TLP 3844-Z™			2, 3, 4	3

1 - Internal, field kit 2 - Internal, factory option 3 - External, field kit 4 - ZebraLink compatible
 ** Only currently selling products. Go to www.zebra.com or ask your Zebra reseller for more details.

Securities Supported

	Cisco CB21	Cisco 350	Motorola LA-4121	Motorola LA-4137CF
Open	Yes	Yes	Yes	Yes
EAP-FAST	Yes	Not Supported	Yes	Yes
EAP-TLS	Yes	Not Supported	Yes	Yes
EAP-TTLS	Yes	Not Supported	Yes	Yes
Kerberos	Not Supported	Not Supported	Yes	Yes
LEAP	Yes	Yes	Yes	Yes
PEAP	Yes	Not Supported	Yes	Yes
WEP (40 bit and 128 bit)	Yes	Yes	Yes	Yes
WPA - LEAP	Yes	Yes	Yes	Yes
WPA - PSK	Yes	Yes	Yes	Yes
WPA- EAP-FAST	Yes	Yes	Yes	Yes
WPA- EAP-TLS	Yes	Yes	Not Supported	Yes
WPA- EAP-TTLS	Yes	Yes	Not Supported	Yes
WPA- PEAP	Yes	Yes	Yes	Yes
WPA2 - LEAP	Yes	Not Supported	Not Supported	Not Supported
WPA2 - PSK*	Yes*	Not Supported	Not Supported	Not Supported
WPA2- EAP-FAST	Yes	Not Supported	Not Supported	Not Supported
WPA2- EAP-TLS	Yes	Not Supported	Not Supported	Not Supported
WPA2- EAP-TTLS	Yes	Not Supported	Not Supported	Not Supported
WPA2- PEAP	Yes	Not Supported	Not Supported	Not Supported

Products/Firmware: V60.15.x, *PAX4*, *XiIIIPlus*, 105SL, V53.15.x, ZM400, ZM600, S4M

* Key rotation for WPA-PSK is supported in firmware version V60.15.6Z and later and in firmware version V53.15.6Z and later.

*Specifications subject to change without notice. ©2007 ZIH Corporation. ZebraLink, ZebraDesigner, ZebraNet, and all product names and numbers are Zebra trademarks, and Zebra, the Zebra head graphic, ZebraNet, and ZPL are registered trademarks of ZIH Corp. All rights reserved. Centronics is a registered trademark of Centronics Data Computer Corporation. Cisco is a registered trademark of Cisco Systems, Inc. Linux is a trademark of Linus Torvalds. HP is a registered trademark of Hewlett-Packard Development Company, L.P. Novell and NetWare are registered trademarks of Novell, Inc. Motorola is a registered trademark of Motorola, Inc. UNIX is a registered trademark of X/Open Co. Ltd. Microsoft and Windows are registered trademarks of Microsoft Corporation. All other trademarks are the property of their respective owners.

HEADQUARTERS Zebra Technologies International, LLC **T:** +1 847 793 2600 or +1 800 423 0442 **F:** +1 847 913 8766
ADDRESS: 333 Corporate Woods Parkway, Vernon Hills, IL 60061-3109 U.S.A. **WEB:** www.zebra.com

OTHER LOCATIONS **USA:** California, Rhode Island, Texas, Wisconsin **EUROPE:** France, Germany, Italy, Netherlands, Poland, Spain, Sweden, United Kingdom **ASIA-PACIFIC:** Australia, China, Japan, Singapore, South Korea
LATIN AMERICA: Florida (USA), Mexico **AFRICA/MIDDLE EAST:** India, Russia, South Africa, United Arab Emirates



Zebra Technologies Corporation
 An ISO 9001 registered company
 GSN#: GS-35F-0268N
 ©2007 ZIH Corp. Printed in U.S.A.
 #11825L.P Rev. 7 (10/07) 7.5M