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ZEBRANET® WIRELESS PLUS SPECIFICATIONS

Specifications are provided for reference and are based on printer tests using the ZebraNet Wireless Plus Print Server. Results may vary in actual application settings. Zebra recommends always qualifying any application with thorough testing.

Network Connection

- Network Compatibility - 802.11b/g
- Data Rates Supported – 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48 and 54 Mbps (depending on your card)
- Frequency Band – 2.4 to 2.4897 GHz
- Operating Channels – North America 1-11, Europe ETSI 1-13, France and Singapore 10-13, Japan 1-14
- Refer to wireless LAN radio card manufacturer specifications for information on receive sensitivity, delay spread, available transmit power settings, and typical range

Supported Securities

Products/Firmware	PAX4, XiIIIPlus, 105SL : V60.15.x, I60.15.x, D60.15.x, and later ZM400, ZM600, S4M : V53.15.x, E53.15.x, I53.15.x, D53.15.x, and later			
Radio Manufacturer	**Cisco**		**Symbol**	
Security Type	**Cisco CB21**	**Cisco 350**	**LA-4121**	**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
WPA2 - 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

*Key rotation for WPA-PSK is supported in firmware versions V53.15.6Z, V60.15.6Z, E53.15.0, I53.15.0, I60.15.0, D53.15.0, D60.15.0, and later

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE – Revised 12/9/08

Supported Wireless LAN Radio Cards*

Manufacturer	Status	Type	Format Type	Model
Symbol	**Active**	**802.11b**	Compact Flash	LA4137 Wireless Networker Compact Flash Card (P/N LA-4137-1020-WW)
	Discontinued	802.11b	PCMCIA	Spectrum High Rate direct Sequence PN: LA-4111-1000-US
	Discontinued	802.11b	PCMCIA	Spectrum High Rate direct Sequence PN: LA-4111-1010-US
	Discontinued	802.11b	PCMCIA	Spectrum High Rate direct Sequence PN: LA-4121-1000-US
	Discontinued	802.11b	PCMCIA	Spectrum High Rate direct Sequence PN: LA-4121-1010-US
	Discontinued	802.11b	PCMCIA	Spectrum High Rate direct Sequence PN: LA-4121-1120-US
Cisco	**Active**	**802.11b/g**	Cardbus	AIR CB21AG-A-K9 (Americas)
	Active	**802.11b/g**	Cardbus	AIR CB21AG-E-K9 (ETSI)
	Active	**802.11b/g**	Cardbus	AIR CB21AG-J-K9 (Teltec)
	Active	**802.11b/g**	Cardbus	AIR CB21AG-P-K9 (Japan2)
	Active	**802.11b/g**	Cardbus	AIR CB21AG-W-K9 (Rest of World)
	Discontinued	802.11b	PCMCIA	Aironet AIR-PCMC340
	Discontinued	802.11b	PCMCIA	Aironet AIR-PCMC341
	Discontinued	802.11b	PCMCIA	Aironet AIR-PCMC342
	Discontinued	802.11b	PCMCIA	Aironet AIR-PCMC350
	Discontinued	802.11b	PCMCIA	Aironet AIR-PCMC351
	Discontinued	802.11b	PCMCIA	Aironet AIR-PCMC352

*ZebraNet Wireless Plus Print Servers require the wireless LAN radio card to have an antenna. Contact your card vendor for ordering information.

Supported Services
- Raw TCP
- FTP
- HTTP
- UDP
- LPR/LDP
- Telnet
- SNMPv1
- SMTP
- POP3
- WINS
- ARP

Address Administration Protocols
- DHCP
- BootP
- RARP
- Gleaning
- Permanent

User Interfaces
- Link Status Indicator – appears at the bottom left corner of the front panel LCD providing a real-time display of the printers network status
    - If the print server is associated with a wireless network, the indicator cycles through the following characters: .oO.
    - If the print server is not associated with a wireless network, the indicator displays an underscore: _.
    - If the wireless card is not inserted, the indicator does not display any characters.
- Signal Indicators
    - Signal Strength
    - Signal Quality
    - Noise Level

Software Tools
ZebraNet^{TM} Bridge Enterprise – Centrally manage Zebra printers from a single PC screen anywhere on your global network.

Firmware
* Requires firmware V53.15.x, V60.15.x, E53.15.x, I53.15.x, I60.15.x, D53.15.x, D60.15.x or newer

Environmental Specifications
* Operates to the environmental specifications of the printer

Electrical Specifications
* Power provided by the printer
* Agency Approvals: Refer to radio card vendor documentation

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