Table 10 • Printer Parameters (Page 11 of 19)

Parameter	Action/Explanation
PARALLEL COMM. -BIDIRECTIONAL +	**Set Parallel Communications** Select the communications port that matches the one being used by the host computer. **Default:** BIDIRECTIONAL **Selections:** BIDIRECTIONAL, TWINAX/COAX, UNIDIRECTIONAL **To change the value shown:** 1. Press PLUS (+) or MINUS (-) to scroll through the options.
SERIAL COMM -RS232 +	**Set Serial Communications** Select the communications port that matches the one being used by the host computer. This setting applies only when the serial port is used. **Important** • Do not change this parameter from the default. The printer supports only RS-232. This parameter will be eliminated in a future version of the firmware. **Default:** RS232 **Selections:** RS232, RS422/485, RS485 MULTIDROP **To change the value shown:** 1. Press PLUS (+) or MINUS (-) to scroll through the options.
BAUD -9600 +	**Set Baud** This setting applies only when the serial port is used. The baud setting of the printer must match the baud setting of the host computer for accurate communications to take place. Select the value that matches the one being used by the host computer. **Default:** 9600 **Selections:** 110, 300, 600, 1200, 2400, 4800, 9600, 14400, 19200, 28800, 38400, 57600, 115200 **To change the value shown:** 1. Press PLUS (+) or MINUS (-) to scroll through the options.
DATA BITS - 8 BITS	**Set Data Bits** This setting applies only when the serial port is used. The data bits of the printer must match the data bits of the host computer for accurate communications to take place. Set the data bits to match the setting being used by the host computer. **Note** • Code Page 850 requires the data bits to be set to 8 bits. See the *ZPL II Programming Guide* for more information. **Default:** 8 BITS **Selections:** 7 BITS, 8 BITS **To change the value shown:** 1. Press PLUS (+) or MINUS (-) to toggle between the options.

Table 10 • Printer Parameters (Page 12 of 19)

Parameter	Action/Explanation
PARITY – NONE +	**Set Parity** This setting applies only when the serial port is used. The parity of the printer must match the parity of the host computer for accurate communications to take place. Select the parity that matches the one being used by the host computer. **Default:** NONE **Selections:** EVEN, ODD, NONE **To change the value shown:** 1. Press PLUS (+) or MINUS (-) to scroll through the options.
HOST HANDSHAKE – XON/XOFF +	**Set Host Handshake** This setting applies only when the serial port is used. The handshake protocol of the printer must match the handshake protocol of the host computer for communication to take place. Select the handshake protocol that matches the one being used by the host computer. **Default:** XON/XOFF **Selections:** XON/XOFF, DTR/DSR, RTS/CTS **To change the value shown:** 1. Press PLUS (+) or MINUS (-) to scroll through the options.
PROTOCOL – NONE +	**Set Protocol** Protocol is a type of error checking system. Depending on the selection, an indicator may be sent from the printer to the host computer signifying that data has been received. Select the protocol that is requested by the host computer. Further details on protocol can be found in the *ZPL II Programming Guide*. **Default:** NONE **Selections:** NONE, ZEBRA, ACK_NAK **Note •** ZEBRA is the same as ACK_NAK, except that ZEBRA response messages are sequenced. If ZEBRA is selected, the printer must use DTR/DSR for host handshake protocol. **To change the value shown:** 1. Press PLUS (+) or MINUS (-) to scroll through the options.
NETWORK ID – 000 +	**Set Network ID** Network ID is used to assign a unique number to a printer. This gives the host computer the means to address a specific printer. This does not affect TCP/IP or IPX networks. **Default:** 000 **Range:** 000 to 999 **To change the value shown:** 1. Press MINUS (-) to move to the next digit position. 2. Press PLUS (+) to increase the value of the digit.

Select a Data Communication Interface

Table 5 provides basic information about data communication interfaces that you can use to connect your printer to a computer. You may send label formats to the printer through any data communication interface that is available. Select an interface that is supported by both your printer and your computer or your Local Area Network (LAN).

Table 5 • Characteristics of the Data Communication Interfaces

Interface	Standard or Optional on Printer	Characteristics
RS-232 Serial	Standard	• Maximum cable length of 50 ft (15.24 m). • You may need to change printer parameters to match the host computer. • You need to use a null-modem adaptor to connect to the printer if using a standard modem cable.
IEEE 1284 Bidirectional Parallel	Standard	• Maximum cable length of 10 ft (3 m). • Recommended cable length of 6 ft (1.83 m). • An Ethernet print server takes up or covers this port on the printer. • No printer parameter changes required to match the host computer.
Internal wired Ethernet print server	Optional	• Can print to the printer from any computer on your LAN. • Can communicate with the printer through the printer's web pages. • Computer must be equipped with an Ethernet board. • The printer must be configured to use your LAN.
Wireless Ethernet print server	Optional	• Can print to the printer from any computer on your Wireless Local Area Network (WLAN). • Can communicate with the printer through the printer's web pages. • Computer must be equipped with an Ethernet board. • The printer must be configured to use your WLAN.

Data Cables and Wireless Cards

You must supply all data cables or wireless cards for your application.

Data Cables Ethernet cables do not require shielding, but all other data cables must be fully shielded and fitted with metal or metallized connector shells. Unshielded data cables may increase radiated emissions above the regulated limits.

To minimize electrical noise pickup in the cable:

- Keep data cables as short as possible.
- Do not bundle the data cables tightly with the power cords.
- Do not tie the data cables to power wire conduits.

Wireless Cards For supported wireless cards, refer to the *ZebraNet Wireless Print Server and Wireless Plus Print Server User Guide*. A copy of the manual is available at http://www.zebra.com/manuals or on the user CD that came with your printer.

Connect the Printer to the Computer or Network

Table 6 shows how to connect the different types of data cables to your printer and computer. The connectors on the back of your computer may be in different locations than on the sample computer shown in this section.

Caution • Ensure that the printer power is off (**O**) before connecting data communications cables. Connecting a data communications cable while the power is on (**I**) may damage the printer.

Table 6 • Connecting the Printer to a Computer or Network

Interface	Connection and Configuration
RS-232 Serial	The baud rate, number of data and stop bits, the parity, and the XON/XOFF or DTR control must match those of the host computer. See *Control Panel Parameters* on page 87 to view or change these parameters.