

Select a Data Communication Interface

Table 3 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 3 also 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 3 • Data Communication Interfaces

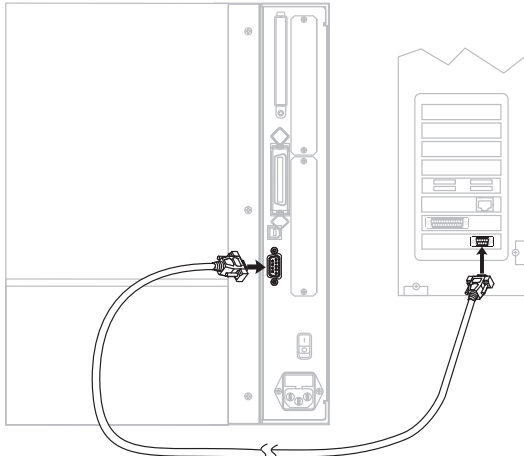
Interface	Standard or Optional	Description
RS-232 Serial	Standard	<p>Limitations and Requirements</p> <ul style="list-style-type: none"> • Maximum cable length of 50 ft (15.24 m). • You may need to change printer parameters to match the host computer. • You need to use a null-modem adaptor to connect to the printer if using a standard modem cable. <p>Connections and Configuration 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 <i>Standard Control Panel Parameters</i> on page 91 to view or change these parameters.</p> 

Table 8 • Printer Parameters (Sheet 12 of 22)











Language/Parameter	Action/Explanation
 SERIAL COMM. -RS232 +	<p>Set Serial Communications</p> <p>Select the communications port that matches the one being used by the host computer. This setting applies only when the serial port is used.</p> <p> Note • Select RS232 if you are using an external adapter to enable RS422/485 operation.</p> <p><i>Default Value:</i> RS232 <i>Selections:</i> RS232, RS422/485, RS485 MULTIDROP</p> <p>To change the value shown:</p> <ol style="list-style-type: none"> 1. Press PLUS (+) or MINUS (-) to scroll through the options.
 BAUD -9600 +	<p>Set Baud</p> <p>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.</p> <p><i>Default Value:</i> 9600 <i>Selections:</i> 300, 600, 1200, 2400, 4800, 9600, 14400, 19200, 28800, 38400, 57600, 115200</p> <p>To change the value shown:</p> <ol style="list-style-type: none"> 1. Press PLUS (+) or MINUS (-) to scroll through the options.
 DATA BITS -8 BITS	<p>Set Data Bits</p> <p>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.</p> <p><i>Default Value:</i> 8 BITS <i>Selections:</i> 7 BITS, 8 BITS</p> <p>To change the value shown:</p> <ol style="list-style-type: none"> 1. Press PLUS (+) or MINUS (-) to toggle between the options.
 PARITY -NONE +	<p>Set Parity</p> <p>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.</p> <p><i>Default Value:</i> NONE <i>Selections:</i> EVEN, ODD, NONE</p> <p>To change the value shown:</p> <ol style="list-style-type: none"> 1. Press PLUS (+) or MINUS (-) to scroll through the options.

Table 8 • Printer Parameters (Sheet 13 of 22)

Language/Parameter	Action/Explanation
 HOST HANDSHAKE -XON/XOFF +	<p>Set Host Handshake</p> <p>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.</p> <p><i>Default Value:</i> XON/XOFF <i>Selections:</i> XON/XOFF, DSR/DTR, RTS/CTS</p> <p>To change the value shown:</p> <ol style="list-style-type: none"> 1. Press PLUS (+) or MINUS (-) to scroll through the options.
 PROTOCOL -NONE +	<p>Set Protocol</p> <p>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 <i>Programming Guide for ZPL, ZBI, Set-Get-Do, Mirror, and WML</i>.</p> <p><i>Default Value:</i> NONE <i>Selections:</i> NONE, ZEBRA, ACK_NAK</p> <p> Note • ZEBRA is the same as ACK_NAK, except that ZEBRA response messages are sequenced. If ZEBRA is selected, the printer must use DSR/DTR for host handshake protocol.</p> <p>To change the value shown:</p> <ol style="list-style-type: none"> 1. Press PLUS (+) or MINUS (-) to scroll through the options.
 NETWORK ID - 000 +	<p>Set Network ID</p> <p>This parameter assigns a unique number to the printer when the printer is operating in an RS422/485 multi-drop network environment (an external RS422/485 adapter is required). This gives the host computer the means to address a specific printer. This does not affect TCP/IP or IPX networks.</p> <p><i>Default Value:</i> 000 <i>Range:</i> 000 to 999</p> <p>To change the value shown:</p> <ol style="list-style-type: none"> 1. Press MINUS (-) to move to the next digit position. 2. Press PLUS (+) to increase the value of the digit.
 COMMUNICATIONS -NORMAL MODE +	<p>Set Communications Mode</p> <p>The communication diagnostics mode is a troubleshooting tool for checking the interconnection between the printer and the host computer. For more information, see <i>Communications Diagnostics Test on page 160</i>.</p> <p><i>Default Value:</i> NORMAL MODE <i>Selections:</i> NORMAL MODE, DIAGNOSTICS</p> <p>To select communication diagnostics mode:</p> <ol style="list-style-type: none"> 1. Press PLUS (+) or MINUS (-) to toggle between the options.