

Document: #HT000132

Document Title: Zebra Wired and Wireless Network Setup

Product(s): T-375 & T-1000

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Introduction

The Zebra Xi4 printer on the T-1000 can be set up with both Ethernet (wired network) and Wi-Fi (wireless network) card connected. However, only one of them can be active at any given time. This allows for them to share a static IP. If you set them up via DHCP (automatic IP address assignment by the network), they will get separate IP addresses.

This difference will come into consideration when setting up your computer for printing.

If they have different IP addresses, you will end up having to set up two printers in Windows, or go into the printer setup in your labeling software and change IP address every time the printer switches from wired to wireless. This would typically happen if the bagger is on a cart, and it gets moved from its "wired" spot to a different part of the facility, and needs to use wireless card to access the network.

The IT department can set up both cards with the same IP address. This way, there would be only one printer to choose in Windows, and you can print to the same printer from your labeling software without regard to whether the printer is connected via Ethernet or Wi-Fi.

The printer will connect to whatever network is available. It will choose Ethernet first if present. If you need to plug in or unplug the Ethernet cable, turn the bagger off first, then back on again after plugging/unplugging.

Ethernet setup

Zebra Setup Utilities (ZSU) is available for download <u>here</u>.

Turn off your Bagger, and connect your Ethernet cable to the Ethernet port on the back of the Bagger. Turn the Bagger on again.

Install ZSU on a computer that is connected to the printer via USB cable (such as a laptop).

If you are installing a printer driver at the same time, the printer settings are at the end of this document.

	ZDesigner 110X-4 20	3 de Tores (Cop	igner 110Xi4 203 dpi	Install New Printer
			02	Refrech Printer List
	(Copy 2) US800.3	s api	y 3) 06	
	ZDesigner 110Xi4 20	3 dpi 👘 ZDes	igner 110%i4 203 dpi	
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Printer Confi	iguration ifigure the selected printer			
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-	👫 Configure Printe	er Settings	Townload Fo	nts and Graphics
~	Configure Printe	t Quality	🛒 Download Fo	nts and Graphics tinter Tools
~	Configure Printe	tr Settings t Quality Connectivity	Townload Fo	nts and Graphics tinter Tools ication With Printer
~	Configure Printe	t Quality Connectivity	Nopen Commun	nts and Graphics rinter Tools ication With Printer

Open ZSU. Once set up with ZSU, make sure the printer is highlighted, and click *Configure Printer Connectivity*.



This window will appear.



Click Next.

Choose DHCP or Static.

If setting up Static, fill in necessary info in IP Settings, like in the example on the right. Use numbers that will work on your network.

Hostname can be anything. T1000Bagger is just a suggestion.

	Connectivity Setup Wizard
IP address Select how you	u want the Print Server to obtain an IP address.
	○ DHCP ● Static Hostname: T1000Bagger IP Settings IP Address: 192 168 000 149 Subnet mask: 255 255 248 0 Default gateway: 10 87 95 254
Help	Cancel < <u>B</u> ack <u>N</u> ext > <u>F</u> inish

Connectivity Setup Wizard	×
Final stream. These settings will be sent to the printer or saved to a file.	
^XA ^ND2,P,192.168.000.149,255.255.248.0,10.87.95.254 ^NBC ^NC1 ^NPP ^NINT1000Bagger ^XZ ^XA ^JUS ^XZ ^XA 	~
Help Cancel < Back Next >	ו

Click Next

Click Finish.

Allow 5 to 10 minutes for this to take effect.

Confirm settings by printing a Network Label.

	Connectivity Setup Wizard	×
Send data. Send connectivi	ty configuration commands to printer or save it to a file.	
	● Printer ○ File File name:	
Help	Cancel < <u>B</u> ack <u>N</u> ext > <u>F</u> ini	sh

Wi-Fi setup

Zebra Setup Utilities (ZSU) is available for download here.

Turn your bagger off. If you have an Ethernet cable connected, disconnect it now, and restart the bagger.

Install ZSU on a computer that is connected to the printer via USB cable (such as a laptop).

If you are installing a printer driver at the same time, the ZDesigner printer settings are at the end of this document.

Open ZSU.

Once set up with ZSU, make sure the printer is highlighted, and click *Configure Printer Connectivity*.

This window will appear.

Click Wireless.

ters							
The list t	elow displays	installed printers. T	lo configure a p	printer, select it	and choose on	e of the o	configuration options below
) ZDesigner 110	2Xi-4 203 dpi	^	Install New Printer
	USB00	ner 11004 203 upt I		(Copy 1) USB002			📕 Uninstall Printer
1	ZDesig (Copy USB00	ner 110Xi4 203 dpi 2) 3	r	ZDesigner 110 (Copy 3) USB006	0Xi4 203 dpi		Refresh Printer List
	ZDesig (Copy USB00	ner 110Xi4 203 dpi 4) 7	F	ZDesigner 110 (Copy 5) USB008	0Xi4 203 dpi		
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nter Configu	ration						
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Choose *DHCP* or *Static*.

If setting up *Static*, fill in necessary info in *IP Settings*, like in the example on the right. Use numbers that will work on your network.

Hostname can be anything. T-1000 Bagger is just a suggestion.

IP address Select how you	i want the Print Server to obtain an IP address.
0000	◯ <u>D</u> HCP ● <u>S</u> tatic <u>H</u> ostname: T1000Bagger
	IP Settings IP2 168 000 149 Subnet mask: 255 255 248 0 Default gateway: 10 87 95 254
Help	Cancel < <u>B</u> ack <u>N</u> ext > <u>F</u> inish

Connectivity Setup Wizard

×

Click Next.

If necessary, make a selection. Click Next.

	Connectivity Setup Wizard ×
Wireless Radio Settings Define radio Settings	
¢	<u>B</u> and: 802.11 a/b/g/n (2.4 GHz / 5 GHz) ♥
Help	Cancel < <u>B</u> ack <u>N</u> ext > <u>F</u> inish

Change, if necessary. Click Next.



ESSID is the name (SSID) of your network.

The next screen will change according to the security option you put in here. For this guide WEP 128-bit was chosen.

	Connectivity Se	tup Wizard	
Wireless Settings. Define Wireless Set	surity.		
Please ent configured	er your wireless settings below. I on the following page.	Settings for selected se	ecurity mode will be
	ESSID:	YourNetworkNameHe	ire 👘
(CD)	Security <u>m</u> ode:	WEP 128-bit	~
ALL.	Security <u>u</u> sername:		
10 - A.	Security password:		
All security Print Serve protocols.	roptions may not be available in r and Wireless Plus Print Server	n your printer. Please re User Guide for support	fer to the Wireless led security
Main	Cancel	< Razk Nav	A . Cinick

Fill out according to your network setup.

Click Next.

WEP Settings			
	Authentication type:	Open	~
5 a	WEP index:	1	*
	Encryption key <u>s</u> torage:	OHex	String
	WEP key <u>1</u> :		
	WEP key <u>2</u> :		
	WEP key <u>3</u> :		
	WEP key 4:		
	· _	-	



Click *Advanced Settings* if necessary. If not, click Next.

If you clicked *Advanced Settings*, make necessary changes. Click OK.

	eless Settings	
General		
<u>Operating mode:</u>	Infrastructure	~
<u>P</u> reamble:	Long	¥
International mode:	Off	~
Antennas		
<u>T</u> ransmit:	Diversity	~
<u>R</u> eceive:	Diversity	*
Transmit po <u>w</u> er:	100	¥
Front panel wireless password		
Front panel wireless password The wireless password, which is seperate fro wireless LCD items from being seen or chang factory default is 0000.	m the printer passwo led when it is set to a	rd, protects the non-zero value. 1
Front panel wireless password The wireless password, which is seperate fro wireless LCD items from being seen or chang factory default is 0000. Old pa <u>s</u> sword:	m the printer passwo led when it is set to a	rd, protects the non-zero value. 1
Front panel wireless password The wireless password, which is seperate fro wireless LCD items from being seen or chang factory default is 0000. Old pagsword: <u>N</u> ew password:	m the printer passwo led when it is set to a	rd, protects the non-zero value. 1
Front panel wireless password The wireless password, which is seperate fro wireless LCD items from being seen or chang factory default is 0000. Old pa <u>s</u> sword: <u>N</u> ew password: Detection of wired print server	m the printer passwo led when it is set to a	rd, protects the non-zero value. 1
Front panel wireless password The wireless password, which is seperate fro wireless LCD items from being seen or chang factory default is 0000. Old password: <u>N</u> ew password: Detection of wired print server Note: If running a wireless printer only this w associate on the network.	m the printer passwo ied when it is set to a 0 0 vill greatly reduce the	rd, protects the non-zero value. 1 time needed to
Front panel wireless password The wireless password, which is seperate fro wireless LCD items from being seen or chang factory default is 0000. Old password: New password: Detection of wired print server Note: If running a wireless printer only this w associate on the network. Skip the detection of a wired print server	m the printer passwo led when it is set to a 0 0 vill greatly reduce the on boot up	rd, protects the non-zero value. 1



This is an overview of the settings being sent to the printer.

Choose whether to send directly to the printer, or save the settings in a file.

Click Finish.

You can now remove the USB cable.

Confirm settings by printing a Network Label.

•	Printer File File ngme:

There have been instances where this method does not work, and the settings are not retained. In those circumstances, save the settings to a file instead, and send the settings using the method in How To Load ZPL files via Zebra Setup Utilities, (Help Doc 143).

T375: Print Network Label

		•	STOP	MANL S	
N	lain Menu		Power	Off	Dag
Operation	Bag Settings	Options	No Lat	Del Reprint	
Counters	Job Save	Auxiliary	Erro	r Buffer	
Printer	Tech Assist 米米米米	Stored Labels	Reverse ##_#		Position
Production Graph	Temperature Graph		***.**	ay Laber Ler	Counters
			Darkne: ***_*	ss Clear Labels	Printer
			Pau	se Clear Error	Main Menu

Set Label Length to 6"

Main Menu – Stored Labels – Label Length.

Set to 6".

Print Network Label

Main Menu - Tech Assist (1001) – Printer Status

Press Network Label, and cycle the bagger.

When done, set label length to what your labels usually use.

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STOP			Machine Info		Clear Status	Clear Error	Printer Reset	
agger assW	Option PassW	License Status	APPI ****		Read Status	Clear Labels	Pause	
Printer Status	PLC Info	Factory Settings	Main Menu		HeadTest Reset	interval 米米米米		

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Printer

Main

Menu

T-1000 Print Network Label

Set Label Length to 6"

Main Menu – Options – TI1000Z Printer – Stored Labels.

Set to 6".

Print Network Label

Main Menu - Tech Assist (1001) – Printer Status

Press Network Label, and cycle the bagger.

When done, set label length to what your labels usually use.

Operation

Graph

vi r	SETUP Main Menu		J	30HHHZ0	STOP BAG	G		ET		J	MANUAL CYCLE Page1
	Settings	Options		NA	Load Shelf	NVA	Flat Seal	NVA	Compart Seal	N N A	Twin Seal
	Job Search	Job Save		NA	TI1000Z Printer	NVA	Count Funnel	N A	BO-30	N A	Light Curtain
	Temperature Graph	Alarms		Z A	TIZ Accum	NVA	Accum Funnel	N/A	BO-20		Options Page2
	Machine Info	Technical Assist				D/A	US-5000	NZA	US-5500		Main Menu

STOP MANL SETUP CYCLE		STOP MAIL SETUP CYCL	MANUAL CYCLE els
Power OFF Print Delay 12.34's 12.34's Label Param Cycle Delay Dark 12.3's	Stored	Power OFF Print Dela Label Param No Label 12.34 s Dark 12.33 RepmBuffer Cycle Dela	 Label # 123 Length 12.34
speed 12 Open Nip Darkness Oty 12345 Length 12.34 Clear Reprint OFF Clear	Labels Printer Operation Main Menu	Speed 12 Open Nip Darkness Qty 12345 Length 12.34 Clear Reprint OFF Clear	Printer Operation Main Menu

Your label should look something like this:

Depending on whether you have the Ethernet cable connected, either WIRED or the WIRELESS section will now have an asterisk *.

PRIMARY NETWORK and ACTIVE PRINTSRVR should say Internal Wired or Wireless.

From the configuration label, you need to look for this information:

- IP ADDRESS
- SUBNET MASK
- DEFAULT GATEWAY
- HARDWARE ADDRESS (MAC address)
- ESSID
- WLAN SECURITY

ZTC 110X14-203i YOURNETWORKNAMEHERE 2.12.1761		
YOURNETWORKNAMEHERE 2.12.1761	ZTC 110Xi4-203i	
2.12.1761	YOURNETWORKNAMEHERE	
Wireless. PRIMARY NETWORK NO. LOAD FROM EXT? Wireless. ACTIVE PRINTSRVR EXTERNAL WIRED ALL. ALL. IP PROTOCOL 000.000.000.000. IP ADDRESS 255.255.255.255.000. SUBNET MASK 000.000.000.000. DEFAULT GATEWAY 000.000.000.000. WINS SERVER YES. TIMEOUT CHECKING 300. TIMEOUT CHECKING 300. TIMEOUT CHECKING 300. TIMEOUT VALUE 000.000000000. MAC ADDRESS INTERNAL WIRED ALL. ALL. IP PROTOCOL 000.000.000.000. DEFAULT GATEWAY 000.000.000.000. DEFAULT GATEWAY 000.000.000.000. WINS SERVER YES. TIMEOUT CHECKING 300. TIMEOUT VALUE 000.00000000. MAC ADDRESS WIRELESS* ALL. ALL. IP PROTOCOL 192.168.000.0157. IP ADDRESS 255.255.255.0500. SUBNET MASK 1900. BASE RAW PORT 0000000000. MAC ADDRESS	2.12.1761	OPTION FIRMWARE
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07FFH CHANNEL MODE	OFF	INTL MODE
	07FFH	CHANNEL MODE



Ping Connection Test

Read the address from IP ADDRESS in the table above. Open a command prompt, and PING the printer.

Windows XP and Windows 7:

Start – Run, type CMD and press Enter.

Windows 8:

Right-click lower left corner, choose Command Prompt.

In the CMD window: (use the IP address from your Network Label)

C:\Users\Username>ping 192.168.0.157

Pinging 192.168.0.157 with 32 bytes of data: Reply from 192.168.0.157: bytes=32 time=118ms TTL=60 Reply from 192.168.0.157: bytes=32 time=5ms TTL=60 Reply from 192.168.0.157: bytes=32 time=108ms TTL=60 Reply from 192.168.0.157: bytes=32 time=4ms TTL=60

LabelView Setup

In LabelView, you need to open a label, then click *File – Select Printer*.

File	Edit	View	Objects	Data sources	Tools
*	New				Ctrl+N
2	Open			(Ctrl+O
	Import				•
	<u>C</u> lose				
	C <u>l</u> ose /	All			
	<u>S</u> ave				Ctrl+S
	S <u>a</u> ve A	s		Sh	ift+F3
	Export				•
-	Label/F	Page set	tup		
٢	Select	p <u>r</u> inter.			F5
	Printer	setup		Sh	ift+F5
۲	Print				Ctrl+P
	Proper	<u>t</u> ies			
	1 Zebra	a 200 dj	oi stored la	bel 1.lbl	
	2 00 W	/ireless i	Zebra 200 (dpi stored label :	1.lbl
	3 zebra	a 300 dp	oi stored la	bel 2.lbl	
	4 RAP	label.lbl			
	Enter p	oass <u>w</u> or	d		
	E <u>x</u> it				

Choose your printer. Click PORT.

lame	Port	Settings
Fax	SHRFAX:	<u>C</u> OM
HP ePrint HP Laser let 1200 Series PCL 5 Service	LPT1: 192.168.0.161	Pamova
Microsoft XPS Document Writer	PORTPROMPT:	Remove
Send To OneNote 2013	nul:	<u>A</u> dd
🖉 Tec B572	->USB001	Port
ZDesigner 110Xi4 203 dpi	USB001	Foren
ZDesigner 110Xi4 300 dpi	USB002	
ZDesigner Z4Mplus 203DPI	USB003	
Zebra 110Xi4 (300dpi)	->USB002	
Zebra 140Xi4 (203dpi)	->USB001	

Click TCP/IP.



Network printers	LADBO: LPT1: LPT2: LPT3: nul:	^
<u>N</u> etwork printers	SHRFAX: USB001 USB002	
Network printers	<	>
	Network printe	rs
TCP/IP	TCP/IP	

IP Addre	ss :			a 44
192 .	168	. 0	. 157	- <u>-</u>
Port Num	ber :			
9100				
		OK		Cancel



Click OK, OK, OK and OK.

You can now test your connection by sending a label over to your printer.

ZDesigner Printer Driver Settings

The ZDesigner printer driver is used for label software other than LabelView that doesn't have internal support for Zebra printers.

The following ZDesigner Dialog Box can be found in the Labeling Software used. Check the Help Files on how to select the correct Print Driver and adjust the settings.

If no Labeling Software is be used or no access to the Labeling Software is possible use the following procedure to access the ZDesigner Dialog Box:

- 1. In Windows go to Control Panel and select Devices and Printers.
- 2. Select the correct Zebra Designer Printer and Right click.
- 3. Select Printing Preferences and Left Click.

The following ZDesigner Dialog Box will appear.

Click on Options Tab

Set setting as shown in the above picture.

- Speed is the Print Speed of the Label
- Darkness is the temperature that the print head will use to print the label.

Note: The higher the darkness the dark the label will print but if the darkness is to high then the ribbon may stick to the bag.

- Width is the width of the label Note: The width cannot exceed the width of the print head.
- Height is the length of the label.

	Barcode Fo	ints		C	ommand	d Fonts
Custon	Command	s	Import/Ex	port sett	ings	About
Options	Advance	ed Setup	Ditherin	g St	ocks	Printer Memory
Settings						
N	lo. Of Copie	s:	1			
S	peed:		6	•	"/s	
C	arkness:		20	•		
S	tocks:		User define	ed		•
Paper For	mat		100			
0) cm		_	portrait		
0	mm		A) landsc	ape	
) inch			rotate	180°	
Size		-				
V	Vidth:	4.00				
H	leight:	2.50				
Unprintab	le Area —					
L	eft:	0.00	1	Гор:	C	.00
F	light:	0.00	1	Bottom:	0	.00

500

Note: The height of the label should be slightly longer than the label length.

If Label Software is warning that the label is to long the Label Height in the Zebra Designer Print Driver is too short.

The longer the label the more ribbon will be used.

Set settings as shown.

Click on the Applicator Button

	Barcode Font	5			Comman	d Fonts	
Custom C	stom Commands Import/Exp			settings	To	ols	About
Options	Advanced	Setup	Ditheri	ng	Stocks	Print	er Memory
Use pr	inter settings						
Operation	Mode						4
C	Tear off			O RFI	D		
C	Rewind			O Cutt	ter		
C) Peel Off			Group	Quantity:	0	
0	Applicator			O Adv	ranced **		
C) Stream						
	Mirror Image			Inve	erse		
Media Typ							
(Thermal Tra	nsfer) The	ermal Dire	ct	
Tracking I	Mode						
	Continuous			Mar	k Sensing	9	
C	Web Sensin	g					
Adjustmen	nt						
т	op	0.0) in	ch			
Т	ear Off	0.0	0 in	ch			
L	eft Position	0.0) in	ch			
** Only	alid for upo wit	h l ahalin	Cofficient	-			
Only Va	and for use Wit	Labelin	ig Soltwa	ne			
	Applica	tor	(Other		Calib	rate

8 23 Applicator Setup Operation mode Off Maximum throughput Reprint on error Application mode Off Signal HIGH 20ms Signal HIGH Signal LOW 20ms O Signal LOW Start signal Pulse mode C Level mode Application label Feed mode Error mode Other settings Reprint mode Ribbon low mode Close

Set settings as shown.

Click the Close Button.

Set settings	as	shown.	

(Rewind instead of Applicator)

Click on Dithering Tab.

Barcode Fonts			Command Fonts				
Custom Commands		In	port/Expor	About			
Options	Advanced Setu	ip 🔡	Dithering	Stocks	Printer Memor		
Use prin	ter settings						
Operation N	Mode						
0	Tear off		OF	RFID			
۲	Rewind		00	Cutter			
Peel Off			Group Quantity: 0				
0	Applicator		01	Advanced **			
	Mirror Image						
Media Type							
0	Thermal Transfe	r					
0	Thermal Direct						
Tracking M	ode						
0	Continuous		01	Mark Sensing	2		
0	Web Sensing						
Adjustment							
То	p	0.00	inch				
Tear Off		0.00	inch				
Let	t Position	0.00	inch				
- Only val	id for use with La	beling	oottware				
	Applicator		Other		Calibrate		

Set settings as shown.

Click on the Apply Button.

Click on the OK Button.

The Zebra Designer Print Driver 110Xi4 setting are now set.

Note: Zebra Designer Print Driver 110XiIII setting are similar.

Custom Commands Import/Export settings Tools About Options Advanced Setup Dithering Stocks Printer Mem Dithering type Smooth Scanned Detail None Stocks None Stocks Stocks	Barcode Fonts				Command Fonts				
Options Advanced Setup Dithering Stocks Printer Mem Dithering type Smooth Scanned Detail None None Image: Stock and a stock	Custom C	ommands	Impor	t/Export settin	igs To	ools	About		
Dithering type Smooth Detail None None	Options	Advanced	Setup	Dithering	Stocks	Printe	er Memory		
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None	C) Detail				1			
	0) None					•		
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