



# **Revision Information**

Revision	Page	Altered Items Contents
Rev.1.0	All pages	

### **1. MANUAL INFORMATION**

This WLAN manual provides information on the connection of wireless network with the POS printer .

We at DASCOM maintain ongoing efforts to enhance and upgrade the functions and quality of all our products. In following, product specifications and/or user manual content may be changed without prior notice.

## **2. PRECAUTIONS**

2-1 The printer has to be within 100m(Out door) from AP(Access point) to connect WLAN. Although 35m is able to communicate in door, WLAN could be affected by environment to be shorten.

2-2 The maximum separating distance may be shortened if transmission obstacles, such as cement walls, are present

2-3 If a device (such as a microwave oven, wireless LAN, etc.) that uses the same frequency is present, transmission may be interrupted. Separate the printer and Bluetooth-enabled device from such interrupting devices by a distance of at least 5m.

# **3. SPECIFICATIONS**

CATEGORIES	FEATURE	IMPLEMENTATION
	Wireless Standard	IEEE802.11b, IEEE802.11g,IEEE802.11n
	Frequency Range	2.412~2.484GHz
		802.11b:+16±2dBm(@11Mbps)
	Transmit Power	802.11g: +14±2dBm(@54Mbps)
Wirelass Specification		802.11n: +13±2dBm(@HT20,MCS7)
wireless specification		802.11b: -93dBm(@11Mbps, CCK)
	Receive Sensitivity	802.11g: -85dBm(@54Mbps, OFDM)
		802.11n: -82dBm(@HT20,MCS7)
		Inner:onboard PCB antenna
	Antenna options	Outer:I-PEX connector,SMA connector
		UART
	Data interface	SPI,PWM,GPIO
Hardware Specification	Operating voltage	2.8~3.6V
		sending duration:~200mA(peak)
		normal mode:~12mA(average),200mA(peak)
Software Specification	Wireless network type	STA/AP/STA+AP
Security mechanic		WEP/WPA-PSK/WPA2-PSK
	Encryption type	WEP64/WEP128/TKIP/AES
	Firmware upgrade	Local wireless, remote update
	Network protocol	IPv4,TCP/UDP/FIP/HTTP

# 4. HOW TO INSTALLATION

WLAN can be configured through the printer's Wi-Fi card.

1. Be sure that the power for the printer and host computer is turned off.

2. Install the interface board in the printer.(If an interface circuit board is already installed, remove it and install the Wi-Fi card.)



3. Tighten the screws.

If you have removed an interface circuit board that was already installed, fix the Wi-Fi interface board using the removed screws.



### 5. PARAMETERS CHECKING AND RESETTING ILLUSTRATION OF WI-FI CARDS

### (1)Wi-Fi card parameter checking:

Press the reset button on the interface card round hole when the printer is power on, the printer will print software edition and the TCP/IP setting information of the interface card.



### (2)Wi-Fi card parameter resetting:

Press the button on the communication card round hole then power on. he parameter on the communication card is renew to the original situation.

# **6. FACTORY RESET VALUES**

		-
Printer Name	Printer Name	*Printer model (DT-230)
	Printer Port Num	9100
	User ID	admin
	User Password	password
Protocol	FTP	Disable
	TELNET	Disable
	HTTPS	Disable
	SNMP	Disable
		Community Name(Read) : "public"
		Community Name(Write) : "private"
		Trap IP Address : 192.168.0.33
		Trap Community : "public"
Authentication	Open System	None
	Shared key	None
Network	Network Mode	Ad-hoc, channel 1
	SSID	HF-LPB100
	Inactivity time	10
	IP Assignment Method	manual
	IP, Subnet, Gateway	IP : 192.168.0.31
		Subnet : 255.255.255.0
		Gateway : 192.168.0.1

## 7. ETHERNET/WLAN TEST BY USING WINDOWS TEST PAGE

1) Install the printer driver.

2) Click the [Start] button, and then select "Printers and Faxes."



3) Select and right click on the corresponding printer model, and then select "Properties."

Open
Set as Default Printer
Printing Preferences
Pause Printing
Sharing
Use Printer Offline
Create Shortcut
Delete
Rename
Properties

4) Select the "Ports" tab from the "Properties" window.

🍓 Tally Dasc	com DT-230 Proper	ties	<b>?</b> 🗙	
General Sha	aring Ports Advance	d Device Settings		
<b>N</b>	ally Dascom DT-230		_	
Print to the for checked por	ollowing port(s). Documer rt.	nts will print to the first free		
Port	Description	Printer	^	
COM2:	Serial Port			
СОМЗ:	Serial Port			
COM4:	Serial Port			
	Print to File		=	
	Virtual printer port fo	MAX58(USB) Tally Dasser DT 220, Misso		
E IFYM:	I hinfint fint for	Tally Dascom DT-230, MICro	~	
		- Data - Cariforni Data	51	
Add P	ort Delet	e Port Configure Port.	<u> </u>	
Enable bi	directional support			
Enable printer pooling				
	0	Cancel Ap	yly	

5) Click "Add Port...".

🍓 Tally Dase	om DT-23	) Propert	ies		? 🗙
General Sha	ring Ports	Advanced	Device Se	ettings	
Print to the fit	ally Dascom D	T-230 ). Document	s will print to	the first free	_
Port	Description Serial Port		Printer		
	Serial Port Serial Port Print to File Virtual printe	er port fo	MAX58(US)	31	
	ThinPrint Pri	int Port f	Tally Dasco	m DT-230, Micro	~
Enable bi	ort	Delete	Port	Configure Port	
		ОК		Cancel A	pply

6) Select "Standard TCP/IP Port" and click "New Port...".

Printer Ports
Available port types:
Local Port
Standard TCP/IP Port ThinPrint Print Port Monitor for VMWare
New Port Type New Port Cancel

7) Click the [Next] button in the "Add Standard TCP/IP Printer Port Wizard" window.



8) Enter the IP address assigned to the printer in the "Printer Name or IP Address" field in the "Add Port" pop up window, and then click the [Next] button.

Add Standard TCP/IP Printer Port Wizard				
Add Port For which device do you want to add a port?				
Enter the Printer Name or IP ac	ldress, and a port name	for the desired device.		
Printer Name or IP Address:	192.168.0.31			
Port Name: IP_192.168.0.31				
	< Bac	k Next >	Cancel	

9) Click the [ext] button at the "Add Standard TCP/IP Printer Port Wizard" window.

Add Standard TCP/IP Printer Port Wizard 🛛 🛛 🔀
Additional Port Information Required The device could not be identified.
The device is not found on the network. Be sure that: 1. The device is turned on. 2. The network is connected. 3. The device is properly configured. 4. The address on the previous page is correct. If you think the address is not correct, click Back to return to the previous page. Then correct the address and perform another search on the network. If you are sure the address is correct, select the device type below.
Device Type
Standard Generic Network Card ▼
O Custom Settings
< Back Next > Cancel

10) Click the [Finish] button at the "Add Standard TCP/IP Printer Port Wizard" window.

Add Standard TCP/IP Prin	ter Port Wiza	ırd	×
	Completing the Add Standard TCP/IP Printer Port Wizard You have selected a port with the following characteristics.		
	SNMP: Protocol: Device: Port Name: Adapter Type:	No RAW, Port 9100 192.168.0.31 IP_192.168.0.31 Generic Network Card	
	To complete th	is wizard, click Finish.	כ

11) Click the "Configure Port..." button in the "Properties" window.

💩 Tally I	Dascom	DT-230	Properti	es		. (	? 🗙
General	Sharing	Ports	Advanced	Device S	ettings		
2	Tally D	ascom D1	r-230				
Print to checke	the followi d port.	ng port(s)	Documents	will print to	o the first fre	e	
Port				Description	1	Printer	^
	DM4:		9	erial Port			
	LE:		F	rint to File			
□ U	SB001		1	/irtual print	er port fo	MAX58	
	PVM:		1	hinPrint Pr	int Port f	Tally Da	
	192,168	0.31	9	itandard T	CP/IP Port		
	_						~
<						>	
A	dd Port		Delete i	Port	Config	ure Port	
Enab	le bidirect	ional sup	port				
Enable printer pooling							
		_					
			Close		Cancel	App	yly

12) Enter the same number as the local port number set during the installation of the interface card in the "Port Number" field in the Raw Settings, and then click [OK] when you finish entering the required values. [Note]Do not change any other items except the RAW Settings.

Configure Standard TCP/IP	Port Monitor	? 🛛
Port Settings		
Port Name:	IP_192.168.0.31	
Printer Name or IP Address:	192.168.0.31	
Protocol Raw	O LPR	
Raw Settings		
LPR Settings		
LPR Byte Counting Enabled	d	
SNMP Status Enabled		
Community Name: public	c	
SNMP Device Index: 1		
	OK	Cancel

13) Select the "General" tab in the "Properties" window, and then select the "Print Test Page" to check the printing status

💩 Tally Dascom DT-230 Prope	erties 🛛 🛛 🔀
General Sharing Ports Advance	ced Device Settings
Tally Dascom DT-230	
Location:	
Comment	
Modet Tally Dascom DT-230	
Color: No	Paper available:
Double-sided: No	Printer 80(72.1) x 297mm
Staple: No	
Speed: Unknown	
Maximum resolution: 203 dpi	<u>~</u>
Printing F	Preferences Print Test Page
	lose Cancel Apply

### **8 WI-FI SETTINGS**

#### Wi-Fi work mode:

AP mode: when printer under AP mode, it works as an access point.

STA mode: when printer under STA mode, it works as a wireless terminal, which could find and connect to AP. To allow users to conveniently make Wi-Fi setting change, AP mode has been set to default. User could use PC to connect to the printer by web browser. After entering Wi-Fi setting page, users could switch to STA mode accordingly and make other setting changes, for example IP address, SSID.

- 1. Entering Wi-Fi setting page:
  - 1) Power on the printer.
  - 2) Enable Wi-Fi on the PC, and search for "POS-WIFI".



3) Open web browser, and enter <a href="http://192.168.0.XXX">http://192.168.0.XXX</a>( this IP address is printed on the Wi-Fi configuration page).

**How to print Wi-Fi configuration page**: power on the printer, long press the Wi-Fi reset button (see below picture), then printer will print the configuration page.



NOTE: Hold Wi-Fi reset button, at same time power on the printer, Wi-Fi

settings will be set to factory default.

Example of Wi-Fi configuration page, which shows the IP address of 192.168.0.33.

*****	******
Wireless Status	5
WIFI Work Mode	:AP
Firmware	:V1.0.4
AP Information	
SSID	:POS-WIFI
Encryption	:Disable
Encryption Key	:N/A
IP Address	:192.168.0.33
Subnet Mask	:255.255.255.0
DHCP Gateway	:192.168.0.33
MAC Address	: ACCF2324150F
DHCP Server	:Enable
*****	*****

 Use Internet Explorer or other web browser to open <u>http://192.168.0.33</u>, input user name: admin;

password: admin

1	Cannot find serve	r - Microsoft Internet Explorer	
File	e Edit View Fav	orites Tools Help	
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Add	dress 🕘 http://192.1	68.0.33	🖌 🄁 Go 🛛 Links 🎽
	Connect to 192.1 USER LOGIN User name: Password:	68.0.33 ? X e Web ay need s, click n	
	<ul> <li>To check yo and then clid tab, click Se provided by Internet served</li> </ul>	Remember my password OK Cancel make ar connection settings, click the Tools menu, k Internet Options. On the Connections ttings. The settings should match those your local area network (LAN) administrator or vice provider (ISP).	
۲	Opening page http://1	92.168.0.3	Internet

5) After entering user name and password, click on OK to enter Wi-Fi setting page.

setting microsoft inter	er explorer	
e Edit View Favorites	Tools Help	
) Back • 💭 · 🛃	📓 🎧 🔎 Search 👷 Pavorites 🧐 🔂 - 🍓 🖂 🎝	\$
http://192.168.0.33	Vndex_en.html	💌 🛃 Go Linis
System	MD	HFL78100
Work Mode	Software Version	V1.0.04
STA Setting	WE's Work Mode	AP
AP Setting	AP mode	
Other Setting	SSID POS-WIFT	
Account	IP Address	
Lingrado CW	192 168 0.33	
Opgrade Svv	ACCF2324150F	
Restan	STA Mode	
Restore	Router SSID	
	Signal Strength	
	P Address	
	MAC Address	
		3

### 2. STA mode settings

1) Click on "Work Mode" on the left-hand side, rolling down to STA mode.

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Setting - Microsoft Interpretenting	ernet Explorer						×
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Address 🙆 http://192.168.0.3	33/index_en.html				💌 🄁 Go	Links	**
System Work Mode STA Setting AP Setting Other Setting Account Upgrade SW Restart Restore	Select Mode	Select Mode: AP AP ST	mode +STA mode mode A mode	×			
5 - 15						_	~
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E Done					Tuternet 🖉		

2) Click on "SAVE" and below window will pop up.



3) Do not click on "RESTART" button at this moment, instead click on the "STA Setting" on the left side to make more STA settings.

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System	Encryption Method	Disable 🕑		
STA Sotting	Obtain an IP address automatically	Enable M		
AP Setting	IP Address	0.0.0.0	1	
Other Setting	Subnet Mask	89.00	1	
Account	Gateway Address	0.0.0.0		
Upgrade SW	DNS Server Address	10 10 100 254		
Restart			·	
Restore			Save	
				>
one			Internet	

4) Click on "SCAN" button to search for access pointsFor example, below picture shows there are several access points available



5) Choose the correct access point.

For example: "embedded" , see below picture.

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http://192.168.0.3	3					Go Li
_						_
	Plea	se select your o	urrent wireless network			
System	Site	Survey				
Work Mode		SSID	BSSID 0.70-25-2-5A-14	RSSI	Channel	
STA Sotting		ambedded	14-CE-92-44-2E-14	20 66	6	
STA Setting	· ·	embedded	14.01.52.44.21.14	00	P	
AP Setting						
Other Setting						
Other Setting						
Other Setting Account						
Other Setting Account Upgrade SW						
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Setting - Microsoft Internet	et Explorer		
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Address 🕘 http://192.168.0.33/in	dex_en.html		🗸 🄁 Go 🛛 Links 🎽
			^
	Network Name£"SSID£©	embedded	Scan
System	Encryption Method		
Work Mode	Encryption Algorithm	AFS	
STA Setting			
AP Setting	rasswulu	Show passwords	
Other Setting	 Obtain an IP address automatically		
Account	IP Address	0.0.0.0	
Upgrade SW	Cubinet Mark	0.0.0.0	
Restart	Subnet Mask	0.0.0.0	
Restore	Gateway Address	0.0.0.0	
	DNS Server Address	10.10.100.254	
			Save
<			×
E Done			🥑 Internet

NOTE: settings in the above pictures are just for examples, not for your actual on-site network settings. Please refer to your IT and network engineer for the correct network settings.

<sup>6)</sup> After setting, click on "SAVE".



7) If users want to make other changes, click on "BACK", otherwise click on "RESTART" button.



8) Above settings will take into effect after power off/on the printer, user could print the Wi-Fi configuration page to check whether settings have been success fully made.
 NOTE: after changing to STA mode, access point will assign an IP address to the printer, by printing Wi-Fi configuration page, users could see the IP address, and use it for entering Wi-Fi setting page in the future.

#### 3. AP mode settings:

1) Click on the "Work Mode", roll down to "AP mode", click on "Save".



2) Do not click on "Restart", and instead click on "AP Setting" on the left side.

Setting - Microsoft In	ternet Explorer	
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Address 🕘 http://192.168.0	).33/index_en.html 🛛 💽 🚱	Links »
Sustam	Saved Successfully!	
System Work Mode		
STA Setting AP Setting Other Setting Account Upgrade SW Restart Restore	Configurations will take effect after restart. After restart, you will need to re-login the configuration interface for other settings, so it is recommended to restart after completing all settings. Please click (Restart) to restart now, or click [Back] to continue setting. You can restart after all configuration. <u>Restart</u> <u>Back</u>	
		~
Done	🖉 Internet	

3) According to user's actual needs to change network mode, SSID, IP address and other settings ( please refer to IT or network engineer for the correct settings).





4) Click on "Save" and "restart" button to confirm the settings.



5) Power off and power on the printer, above settings will take into effect. Users could print Wi-Fi configuration page to check whether setting have been successfully made.

[End of document]