

Ethernet Connection and Setting

iDPRT Series

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Introduction

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There are four Ethernet connection modes between printer and computer as follows:

- AP Mode—Utility Setting
- AP Mode—Driver Setting
- STA Mode-- Utility Setting
- STA Mode—Driver Setting



1. AP Mode Setting

Note:

1) When setting Ethernet, make sure that the printer and PC are connected to the same router (printer and PC are in the same network segment).

2) For the following operations, take IT4P as an example, and the operation interface will vary according to the system.

3) Make sure the printer has been connected to the PC.

4) The same network segment refers to the first three digits are same; the last value is not the same. And the value change range is "1~255".

1.1 Utility Setting

1) Click the utility, and click the "Get".

Printer Utility V1.0.0.4				×
		> CMD > _		
Setungs Fonts St	Common Internation Test	Command rest Fin	nware system	
Printer:	Common ZPL DPL RS-23	32 Bluetooth Ethernet WIFI	1	
	Ribbon Mode:	ON •	J	
USB	After Printed:	Tear off 🔹 🔻	J	
Printer Information	After Power On:	None 🔻]	
Version:	After TPH Close:	None]	
	Protocol:	AUTO -		
Serial Number:	Paper Type:	Gap 🔻	ĺ	
Cutting Counter:	Sensor Select:	Transmissive 🔻	,]	
	Buzzer Volume	Disable 🔻		
Mileage:	buzzer volume:	500]	
m	Maximum Length:	500	mm	
Cat Printer Information	Tear Off:	0	-120 ~ +120 dots	
Get Printer Information	Print Speed:	8 🔻	j ips	
Printer Status	Density:	15	0 to 30	
	Load Sa	ave	Set	Get
Get Status	DTC Soffice			
	KIC Setting			



2) Choose the "Ethernet".

🔅 Printer Utility V1.0.0.4	
Settings Fonts St	orage Function Test Command Test Firmware System
Interface	Common ZPL DPL RS-232 Bluetoot Ethernet WIFI
Printer: IT4P 🔻	
USB	IP Address: 10 0 16 186
Printer Information	Subnet Mask: 255 255 255 0
Version:	Default Gateway: 10 0 16 1
Serial Number:	Mac address: 00 : 1A : 7D : DA : 71 : 54
Cutting Counter:	
Mileage:	
m	
Get Printer Information	
Printer Status	
	Load Save Set Get
Get Status	
	RTC Setting
	a

3) Setting the "DHCP" to "ON", then click "Set" and restart the printer.

Printer Utility V1.0.0.4	
🍄 Aa 🛛	
Settings Fonts Sto	orage Function Test Command Test Firmware System
Interface	Common ZPL DPL RS-232 Bluetooth Ethernet WIFI
Printer: IT#P	DHCP:
USB Inatic recognition USB	IP Address: 10 0 16 186
Printer Information	Subnet Mask: 255 255 0
Version:	
	Default Gateway:
Serial Number:	Mac address: 00 : 1A : 7D : DA : 71 : 54
Cutting Counter:	
Mileage:	
m	
Get Printer Information	
Printer Status	
	Load Save Set Get
CatStatus	
Get Status	RTC Setting



4) Choose the "Function Test" and click the "Configuration Page", you can get the IP address. (E.g. the IP address is 10.0.16.186)

Printer Utility V1.0.0.4	period, there will be	State and Arriston a	
Settings Fonts Stora	ge Function Test C	> CMD >_ Command Test Firmware	System
Interface Printer: IT4P USB Natic recognition USB	Media Sensor Calibration	Restore Factory Default	
Printer Information Version:	Configuration Page	Media Sense Waveform Printing	
Serial Number:	Pattern Print Testing	Advance Media Sensor Calibration	
Cutting Counter:	Cutter Cut Testing	Buzzer Function Testing	
m Get Printer Information			
Printer Status			
Get Status			

For example, from the following configuration page information can know that the

printer IP address is: 10.0.16.186

SELF-TEST	
Brand:	idprt
MODEL:	IT4P
FW Version:	SV1 .00. 05
CG Version:	SV1 .00. 11
Serial Num	XXXXX
Interface: USB & Serial &	k Ethernet
Serial 9100, None,8,1,DT	rr/dsr
IP Adress:	10.0.16.186
SubnetMask	255.255.255.0
Gateway:	10.0.16.1
MAC Address	80: 1F: 12:99: B0: 03
DHC	Disable



5) Setting the communication interface to "ETH".

🔅 Printer Utility V1.0.0.4				- - X
Settings Fonts St	orage Function Test	> CMD >	mware System	
Printer: IT4P Printer: IT4P US8 COM rmation LPT TH Serial Number.	Ribbon Mode: After Printed: After Power On: After TPH Close: Protocol: Paner Tyne:	32 Bluetooth Ethernet WIF1 ON • On • None • None • Gap •		
Cutting Counter:	Sensor Select: Buzzer Volume:	Transmissive]	
Mileage: m Get Printer Information	Maximum Length: Tear Off: Print Speed:	32000 0 	mm -120 ~ +120 dots j ips	
Printer Status	Density:	15	0 to 15	
Get Status	Load S RTC Setting	ave	Set	Get

6) Click "Config".

🔅 Printer Utility V1.0.0.4				
Aa Aa		> CMD >		
Interface	Common ZPL DPL RS-2	32 Bluetooth Ethernet WIFI	iiware System	
Printer: IT4P 🔻	Ribbon Mode:	ON +]	
ETH Config	After Printed:]	
Printer Information	After Power On:	None]	
Version:	After TPH Close:	None		
Serial Number:	Protocol:	•		
	Paper Type:	Gap 🔻		
Cutting Counter:	Sensor Select:	Transmissive]	
	Buzzer Volume:	Disable 🔻]	
Mileage:	Maximum Length:	32000	mm	
	Tear Off:	0	-120 ~ +120 dots	
Get Printer Information	Print Speed:) ips	
Printer Status	Density:	15	0 to 15	
	Load	ave	Set	Get
Catification				
Ger Status	RTC Setting			



7) Set the IP address as the IP address of the configuration page, and then click "OK". (E.g. the IP address is 10.0.16.186)

TCP/IP Config						
IP Address:	10 0 16 186					
Port:	9100					
ок	Cancel					

8) Select "Configuration Page" setting again to check whether label can be printed normally.

Printer Utility V1.0.0.4		_ _ x
Settings Fonts Sto	Image Image	
Interface Printer: IT4P V ETH V Config	Media Sensor Calibration Restore Factory Default	
Printer Information Version:	Configuration Page Media Sense Waveform Printing	
Serial Number:	Pattern Print Testing Advance Media Sensor Calibration	
Cutting Counter:	Cutter Cut Testing Buzzer Function Testing	
Mileage:		
Get Printer Information		
Printer Status		
Get Status		



1.2 Driver Setting

1) Click "Start" \rightarrow "Devices and Printers". Right click the icon and choose "Printing properties".





2) Click the "Ports".

idprt it4p (203 dpi) P	roperties	*[5			×
Font	s		Tools		Abou	t
General	Sharing	Ports	Advanced	Colo	r Management	Security
aτί μ	OPRT iT4P	(203 dpi)				
Print to the f checked por	following t.	port(s). Doc	uments will pr	int to	the first free	
Port	Descrip	tion	Printer			- Â
LPT1:	Printer	Port				
LPT2:	Printer	Port				=
LPT3:	Printer	Port				
COM1:	Serial P	ort				
COM2:	Serial P	ort				
COM3:	Serial P	ort				
COM4:	Serial P	ort				-
Add F	Port		Delete Port		Configure P	ort
🔽 Enable bie 📃 Enable pri	directiona inter pooli	l support ing				
		ОК	Cancel		Apply	Help

2



3) Click the "Add Port".

iddrt itap (2	03 dpi) Properties			×
Fonts		Tools	AŁ	out
General S	haring Ports	Advanced	Color Management	Security
iDI	PRT iT4P (203 dpi)			
Print to the fo	ollowing port(s). Doc	uments will pri	int to the first free	
Port	Description	Printer		^
LPT2:	Printer Port			
LPT3:	Printer Port			=
COM1:	Serial Port			
COM2:	Serial Port			
COM3:	Serial Port			
COM4:	Serial Port			
FILE:	Print to File			Ŧ
Add P	ort	Delete Port	Configur	e Port
🔽 Enable bid	irectional support			
Enable prin	nter pooling			
	ОК	Cancel	Apply	Help

4) Choose the "Standard TCP/IP Port, then click the "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



5) Click "Next".

Add Standard TCP/IP Printer Port Wizard			
	Welcome to the Add Standard TCP/IP Printer Port Wizard		
	This wizard helps you add a port for a network printer.		
	Before continuing be sure that: 1. The device is turned on. 2. The network is connected and configured.		
	To continue, click Next.		
	< Back Cancel		

6) Enter the IP address. (E.g. 10.0.16.186)

Add Standard TCP/IP Printer Port Wizard		
Add port For which device do you want to add	<u>}</u>	
Enter the Printer Name or IP add	ress, and a port name for the desired device.	
Printer Name or IP Address:	10.0.16.186]
Port Name:	10.0.16.186]
	< Back Next >	Cancel

=





7) Click "Next".

Add Standard TCP/IP	Printer Port Wizard
Additional port in The device cou	formation required Id not be identified.
The device is not f 1. The device is t 2. The network is 3. The device is p 4. The address or If you think the ad address and perfo device type below	found on the network. Be sure that: urned on. s connected. oroperly configured. In the previous page is correct. ddress is not correct, click Back to return to the previous page. Then correct the rm another search on the network. If you are sure the address is correct, select the /.
Device Type	
Standard	Generic Network Card
Custom	Settings
	< Back Next > Cancel



8) Click "Finish".

Add Standard TCP/IP Printer Port Wizard				
	Completing the Add Standard TCP/IP Printer Port Wizard			
	You have selected a port	with the following characteristics.		
	SNMP:	No		
	Protocol:	RAW, Port 9100		
	Device:	10.0.16.186		
	Port Name:	10.0.16.186		
	Adapter Type:	Generic Network Card		
	To complete this wizard,	click Finish.		
		< Back Finish Cancel		

=



9) Return to "Port" page, choose the added port, and click "apply"

ł	idprt it4p (2	203 dpi) Properties	* 2	Contraction of the local division of the loc	×
	Fonts	3	Tools	Abou	t
	General S	Sharing Ports	Advanced	Color Management	Security
	and id	PRT iT4P (203 dpi)			
	Print to the for checked port	ollowing port(s). Do 	cuments will pr	int to the first free	
	Port	Description	Printer		*
	 FILE: USB002 USB001 TPVM: 192.16 	Print to File ThinPrint Print Po Standard TCP/IP f	rt fo Yort BCL500	(203dpi)	E
	☑ 10.0.16	Standard TCP/IP	Port		
	APSPOIL	Local Port	Wicros	oft XPS Document Wr	iter 👻
	Add P	ort	Delete Port	Configure P	ort
	✓ Enable bid ■ Enable print	lirectional support nter pooling			
		Close	Cancel	Apply	Help



10) Click "General" \rightarrow "Print Test Page" to check whether the label can be printed normal.

j iDPRT iT4P (203 dpi) Pro	operties		States Server	
Fonts		Tools	Ab	out
General Sharing	Ports	Advanced	Color Management	Security
	Г4Р (203 d	pi)		
Location:				
Comment:				
Model: iDPRT iT	4P (203 dr	ni)		
- Features	41 (205 dj	,,		
Color: No		Paper a	vailable:	
Double-sided: No				*
Staple: No				
Speed: Unknown				
Maximum resolution:	203 dpi			Ŧ
		Preferences	Print Tes	it Page
ſ	Close	Cancel	Apply	Help



2. STA Mode Setting

2.1 Utility Setting

1) Click the utility, and click the "Get".

🔅 Printer Utility V1.0.0.4				
Settings Fonts Std	orage Function Test	> CMD > Command Test Firr	mware System	
Interface	Common ZPL DPL RS-2	232 Bluetooth Ethernet WIFI	-	
Printer:	Ribbon Mode:	ON -		
ETH - Config	After Printed:]	
Printer Information	After Power On:	None 🔻]	
Version:	After TPH Close:	None 🔻]	
Carial Numbers	Protocol:]	
Serial Number:	Paper Type:	Gap 🔻		
Cutting Counter:	Sensor Select:	Transmissive 🔹]	
	Buzzer Volume:	Disable 🔻]	
Mileage:	Maximum Length:	32000	mm	
m	Tear Off:	0	-120 ~ +120 dots	
Get Printer Information	Print Speed:) ips	
Printer Status	Density:	15	0 to 15	
	Load	Save	Set	Get
Get Status	RTC Setting			



2) Choose the "Ethernet".

🔅 Printer Utility V1.0.0.4		. 🗆 🗙
🍄 Aa		
Settings Fonts Sto	orage Function Test Command Test Firmware System	
	Common ZPL DPL RS-232 Bluetooth Ethernet WIFI	
Printer:	DHCP: ON	
ETH Config	IP Address: 10 0 16 168	
Printer Information	Subnet Mask: 255 255 0	
Version:	Default Gateway: 10 0 16 1	
Serial Number:	Mac address: 00 : 1A : 7D : DA : 71 : 54	
Cutting Counter:		
Mileage:		
m		
Get Printer Information		
Printer Status		
	Load Save Set Get	
Cutotutu		
Get Status	RTC Setting	

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3) Setting the "DHCP" to "OFF", then click "Set" and restart the printer.

Note: the new IP of printer and PC address must be in the same network segment. Methods:

(1) Check the IP address of PC. (Such as: 192.168.16.128)

(2) Change the IP address of printer to 192.168.16.5. (In same network segment)

Printer Utility V1.0.0.4		
Settings Fonts Sta	orage Function Test Command Test Firmware System	
Interface	Common ZPL DPL RS-232 Bluetooth Ethernet WIET	
Printer: IT4P		1
USB Iatic recognition USB	IP Address: 192 168 16 5	
Printer Information	Subnet Mask: 255 255 255 0	
Version:	Default Gateway: 192 168 16 1	
Serial Number:		
Cutting Counters		
Cuturig Counter:		
Mileage:		
m		
Get Printer Information		
Printer Status		
	Load Save Set Get	
Get Status		
Crowns	RTC Setting	





4) Check the IP address whether can be used normally.

Methods:

1 Press WIN + R to open, then input "cmd" and enter.

(2)Input C:\User\Administrator>ping 192.168.16.5 (It's the printer IP address after the ping)

Administrator: C:\Windows\system32\cmd.exe	
C:\Users\Administrator>ping 192.168.16.5	^
Pinging 192.168.16.5 with 32 bytes of data: Reply from 192.168.16.128: Destination host unreachable. Reply from 192.168.16.128: Destination host unreachable.	H
Ping statistics for 192.168.16.5: Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),	
C:\Users\Administrator>	
	-
	æ

5) Setting the communication interface to "ETH".

🔅 Printer Utility V1.0.0.4		
Settings Fonts Sta	Image Image Image Image Image Function Test Command Test Firmware System	
Interface	Common ZPL DPL RS-232 Bluetooth Ethernet WIFI	
Printer:	Ribbon Mode:	
USB Inatic recognition USB	After Printed:	
COM symmetric com	After Power On:	
ETH	After TPH Close: None 🔻	
Sorial Numbers	Protocol:	
	Paper Type:	
Cutting Counter:	Sensor Select: Transmissive	
	Buzzer Volume: Disable	
Mileage:	Maximum Length: 32000 mm	
	Tear Off: 0 -120 ~ +120 dots	
Get Printer Information	Print Speed:	
Printer Status	Density: 15 0 to 15	
	Load Save Set Get	
Get Status	RTC Setting	



6) Click "Config".				
Printer Utility V1.0.0.4				
🕸 Aa 🛛	Î II	> CMD > _		
Settings Fonts St	orage Function Test	Command Test Firr	mware System	
Interface Printer: IT4₽ ▼	Common ZPL DPL RS-23	32 Bluetooth Ethernet WIFI	1	
	Ribbon Mode:		J	
	After Printed:	▼	J	
Version:	After Power On:	None]	
	After IPH Close:	None •	J	
Serial Number:	Protocol:	• [Can •]	
Cutting Country	Paper Type:	Gap •	J	
Cutting Counter:	Sensor Select:		J	
Mileage:	Maximum Langths	32000	mm	
m	Tear Off	0	-120 ~ +120 dots	
Get Printer Information	Print Speed:	-	ips	
Printer Status	Density:	15	0 to 15	
	Load Sa	ave	Set G	et
Get Status	RTC Setting			

7) Set the IP address as the IP address of the configuration page, and then click "OK". (E.g. the IP address is 192.168.16.5)

TCP/IP Config					
IP Address:	192 168 16 5				
Port: 9100					
ок	Cancel				



8) Select "Configuration Page" setting again to check whether label can be printed normally.

🔅 Printer Utility V1.0.0.4		
Settings Fonts Sto	Image Image	
Interface Printer: IT4P ETH Config	Media Sensor Calibration Restore Factory Default	
Printer Information Version:	Configuration Page Media Sense Waveform Printing	
Serial Number:	Pattern Print Testing Advance Media Sensor Calibration	
Cutting Counter: Mileage:	Cutter Cut Testing Buzzer Function Testing	
Get Printer Information		
Printer Status		
Get Status		

2.2 Driver Setting

1) Click "Start" \rightarrow "Devices and Printers". Right click the icon and choose "Printing properties".





2) Click the "Ports".

idprt it4p (2	03 dpi) Properties			
Fonts General S	haring Ports	Tools Advanced	Color Managem	About nent Security
iDi 🥪	PRT iT4P (203 dpi)			
Print to the for checked port	ollowing port(s). Do	cuments will Prin	print to the first fr	ee 🔹
COM4: FILE: USB002 USB001 TPVM:	Serial Port Print to File USB 虚拟打印机端 USB 虚拟打印机端 ThinPrint Print Po	⊡ ⊡ rt fo		E
□ 192.16 10.0.16	Standard TCP/IP P Standard TCP/IP P	Port BCL Port iDPF	500(203dpi) RT iT4P (203 dpi)	-
Add Po Enable bid	ort irectional support nter pooling	Delete Port	Confi	gure Port
	ОК	Can	cel Apply	Help

2



3) Click the "Add Port".

Ę	j idprt it4p (2	203 dpi) Pro	operties	_	_			X
	Font	s		Тос	ls		Abou	t
	General	Sharing	Ports	Adva	nced	Colo	r Management	Security
	iDPRT iT4P (203 dpi)							
	Print to the f checked por	ollowing po t.	ort(s). Doo	cument	ts will pr	int to	the first free	
	Port	Descriptio	on		Printer			^
	COM4:	Serial Por	t					
	FILE:	Print to F	ile +Tro+0.4#					
		USB 虚拟: USB 虚拟:	打印机滞					
	TPVM:	ThinPrint	Print Po	rt fo				=
	192.16	Standard	TCP/IP P	ort	BCL500)(203d	pi)	
	☑ 10.0.16	. Standard	TCP/IP P	ort	idprt	iT4P (2	203 dpi)	-
	Add F	Port		Delete	Port		Configure P	Port
	🔽 Enable bio	directional s	upport					
	🔲 Enable pri	inter poolin	9					
			OK		Cancel		Apply	Help

4) Choose the "Standard TCP/IP Port, then click the "New Port".

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



5) Click "Next".

Add Standard TCP/IP Printer Port V	Nizard		
	Welcome to the Add Standard TCP/IP Printer Port Wizard		
	This wizard helps you add a port for a network printer.		
	Before continuing be sure that: 1. The device is turned on. 2. The network is connected and configured.		
	To continue, click Next.		
	< <u>B</u> ack Cancel		

6) Enter the IP address (e.g. 192.168.16.5), click "Next".

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 addr	ess, and a port name for the desired device.				
Printer Name or IP Address:	192.168.16.5]			
Port Name:	192.168.16.5]			
	< Back Next >	Cancel			

=





7) Click "Next".

Add Standard TCP/IP	Printer Port Wizard
Additional port in The device cou	Information required uld not be identified.
The device is not 1. The device is t 2. The network is 3. The device is p 4. The address o If you think the ac address and perfordevice type below	found on the network. Be sure that: turned on. s connected. properly configured. n the previous page is correct. ddress is not correct, click Back to return to the previous page. Then correct the prm another search on the network. If you are sure the address is correct, select the v.
Device Type	
Standard	Generic Network Card 🔹
© <u>C</u> ustom	S <u>e</u> ttings
	< <u>B</u> ack <u>N</u> ext > Cancel



8) Click "Finish".

Add Standard TCP/IP Printer Port	Wizard	and the same of th				
	Completing the Add Standard TCP/IP Printer Port Wizard					
	You have selected a port	t with the following characteristics.				
	SNMP:	No				
	Protocol: RAW, Port 9100					
	Device:	192.168.16.5				
	Port Name:	192.168.16.5				
	Adapter Type:	Generic Network Card				
	To complete this wizard, click Finish.					
	< <u>B</u> ack Finish Cancel					

=



Fonts	Tools	About
General Sharing	Ports Advanced	Color Management Securit
iDPRT iT4P	(203 dpi) port(s). Documents will prir	nt to the first free
Port	Description	Printer
USB001	USB 虚拟打印机端口	
TPVM:	ThinPrint Print Port fo	
192.168.16.5	Standard TCP/IP Port	
10.0.16.186	Standard TCP/IP Port	iDPRT iT4P (203 dpi)
✓ 192.168.16.5_1	Standard TCP/IP Port	
ZPSPort:	Local Port	Microsoft XPS Documei 🚽
•	III	+
Add Port	Delete Port	Configure Port
The second second		
Enable bidirectional	support	
🔲 Enable printer pooli	ng	

9) Return to "Port" page, choose the added port, and click "apply"



10) Click "General" \rightarrow "Print Test Page" to check whether the label can be printed normal.

idprt it4f	9 (203 dpi) Pro	perties				×
Fo	onts		Tools		Abou	ıt
General	Sharing	Ports	Advanced	Colo	or Management	Security
	idprt it	'4P (203 c	lpi)			
Location:						
Comment	:					
Model: Features Color: N	iDPRT iT4	4P (203 d	pi) Pape	r availab	ıle:	
Double-	sided: No					*
Staple: N	No					
Speed: U	Jnknown					
Maximu	im resolution:	203 dpi				Ŧ
			Preferences		Print Test	Page
	C	Close	Can	cel (Apply	Help