# Installation and Configuration Quick Guide PS1021

Wireless Network Print Server

(2 Eth + 1 USB)

# **Package Contents**

Before installing your PS1021 Network Print Server, please verify the kit contents as

#### following.

- 1 x PS1021 Network Print Server
- 1 x power adapter(12V DC/1A)
- > 1 x Quick Start Guide

\*If any of the above items is missing or damaged, please contact your sales representative.

# **Environmental Requirements**

- Input voltage: 7.5V-32V(standard DC12V/1A)
- Operating temperature: -30 to +70 °C
- Storage temperature: -40 to 85°C
- Relative humidity: < 95% (no condensation)</li>
- 1

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- > 1 x Ethernet Cable
- 1 x SMA Wi-Fi antenna (stubby)

# Hardware Introduction

1. Overview





Name	Color	Status	Description
PWR	Green	On	Router is powered on
		Off	Router is powered off
WAN	Green	On, blinking	Link connection is working
		Off	Link connection is not working
LAN	Green	On, blinking	Link connection is working
		Off	Link connection is not working
WiFi	Green	On, blinking	WiFi is powered on
		Off	WiFi is powered off
LINK	Green	On, blinking	Link is powered on
		Off	Link is powered off

## 3. Reset Button

After powered up the router, press and hold the RST button for 10 seconds, and release the button to return the print server to factory defaults.



# 2. LED Indicators

2

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# Hardware Installation

# 1. Attach External Antenna (SMA Type)

Attach external SMA antenna to the server's antenna connector and twist tightly.

#### 2. Mount the Print Server

The print server can be placed on a desktop or mounted to a wall. Use 2 pieces of drywall screws to mount the print server with the wall mounting kit on the wall.

# **Print Server Network Configuration**

1. Log in the Server

3

To log in to the management page and view the configuration status of your server, please follow the steps below.

1) Connect an Ethernet cable to the LAN port of the server, and connect the other end of the cable to your computer.

2) Configurate PC obtain an IP address automatically from "Local Area Connection", take Win 10 for example:

A) Click Start > Control panel, click Network and Internet, click Network and Sharing Center, click Change Adapter Settings, and then double-click

# 3. Connect the Print Server to a Printer

Connect a USB cable to the USB port of the server, and connect the other end of the cable to your printer.

## 4. Power Supply

Connect the power adapter to the power input interface of the router. **Note:** Voltage input is during 7.5V-32V DC.

#### Local Area Connection (Ethernet).



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B) Click Properties in the window of Local Area Connection (Ethernet) Status.

eneral		
Connection		
IPv4 Connect	ivity:	Internet
IPv6 Connect	ivity:	No Internet access
Media State:		Enabled
Duration:		02:21:13
		100 0 Mbos
Dgtais		100.0 Mbps
Activity	Sent 🚺	DU.0 Hops
Activity	Sent —	Received
Activity	Sent —	

eneral	Alternate Configuration				
You car this cap for the	n get IP settings assigned aut ability. Otherwise, you need appropriate IP settings.	omatically i to ask your	f your n netwo	etwork sup rk administ	oports rator
() Ob	otain an IP address automatic	ally			
OUs	e the following IP address:				
IP ac	ldress:	÷	12	- Q	
Subr	iet mask:				
Defa	ult gateway:				
() Ob	otain DNS server address aut	omatically			
OUs	e the following DNS server a	ddresses:			
Prefe	erred DNS server:		14	- Q	
Alter	nate DNS server:			+	
V	alidate settings upon exit			Advan	rad

**- - - - -**

- -. .

#### C) Choose Internet Protocol Version 4 (TCP/IPv4) and click Properties.



3) On your PC, open a web browser such as Internet Explorer, Google or Firefox etc. From your web browser, type the IP address of the server into the address bar and press enter. The default IP address of the router is 192.168.6.1, though the actual address may vary.



4) In the login page, enter the username and password, then click Login. The default username and password are "admin".

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5) After logging in, the home page of the PS1021 print server's web interface is displayed, for example.

Basic Network					
	tatus				
Advanced Network >					
System Management >	System				
, see a s	Router Name	M2M		Product Name	PS2121
ogout	Firmware Version	Print Server v1.1.2.0302		Product ID	1120PS2200408000
	Local Time	Wed May 6 15:37:12 2020		Hardware Class	Print Server
	Uptime	0h 18m 9s		MAC Address	34:0a:68:25:0b:cf
	Load Average	0.25, 0.20, 0.14		WAN Mode	only Wired
	Wired WAN Status Active Connections		Not connected 755 / 16384 (4%)		
	Memory Total Available Free		90632 kB / 124544 kB (72%) 64304 kB / 124544 kB (67%)		
	Buffered		6328 kB / 124544 kB (5%)		

# 2. Configure the Network Connection

There are two methods to get network connection for the Print Server. One is Wired WAN connection, another is WiFi connection.

#### 1) Wired WAN Connection

Connect an Ethernet cable to the LAN port of the office router, and connect the other end of the cable to your WAN port of the print server.

After wired connect to the office router, print server will obtain an IP address automatically as xxx.xxx.248, you can check it in the **website** > System Status > Over View > Network > Wired WAN Status.

系统状态	*	┽ 打印服务 × 概読 ×					Þ
概意		44×					
路由表		1/062					
系統日志		系统					
内核日志		路由器名	M2M	Ê	品型号	PS1121-R	
实时信息		固件版本	Print Server v1.1.2.0904	产	品序列号	1120PS11908060055	
基本网络		本地时间	Wed Oct 23 15:44:19 2019	(要	件类型	打印服务	
े का जन्म		运行时间	0h 16m 58s	м	AC地址	34:0a:68:24:70:14	
1014001491511		平均负载	1.58, 0.96, 0.58	w	AN模式	有线模式	
系统管理							
退出		网络	-				
		有线 WAN決态	eth1	类型: dhep 地址: 192.168.10.248 MAC地址: 34:04:68:24:7 子阿塊码: 255.255.255.255.05 阿关: 192.168.10.1 DNS 1: 202.96.134.33 到期时间: 23h 43m 45s 已连接: 0h 16m 15s	0:14		
		活动连接		64 / 16384 (0%)			

If the IP address is not as of xxx.xxx.248, you have to manually set static IP address for Service WAN port as following:

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A) Clink Basic Network > Wired Network > WAN > General Setup > Protocol select "Static address", click SWITCH PROTOCOL button.

System Status >	4 Wired Network *
Basic Network 🛛 👻	
Hostnames	WAN LAN
Switch	Interfaces - WAN
Static Routes	On this page you can configure the network interfaces. You can bridge several interfaces by tic
Wired Network	Common Configuration
Wireless Network	General Setup
Static address	Status MAC: 34-0A-68-25-0B-CF
Advanced Network >	RX: 112.36 KB (1095 Pkts.) TX: 27.54 KB (87 Pkts.)
System Management >	Protocol Static address •
Logout	Really switch protocol? SWITCH PROTOCOL

B) Set the IP address with the same network segment with office router and the last IP number is 248, and set a subnet, gateway, DNS address, click **SAVE** 



# C) Now you can double check it in the **website** > **System Status** > **Over**

View > Network > Wired WAN Status.

		状态				
路由表						
系统日志		系统				
内核日志		路由器名	M2M	产品型등	PS1121-R	
实时信息		国件版本	Print Server v1.1.2.0904	产品序列号	1120PS11908060055	
基本网络	>	本地时间	Wed Oct 23 15:44:19 2019	硬件类型	打印服务	
Tentente		运行时间	0h 16m 58s	MAC地址	34:0a:68:24:70:14	
部的问题	*	平均负载	1.58, 0.96, 0.58	WAN模式	有线模式	
兵统管理	>					
BH:		网络				
		有线 WAN状态	集型 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	2: dhcp 1: 192: 108: 10: 248 1: 192: 108: 10: 248 1: 494: 34: 0.04: 66: 24: 70: 14 4) 494: 35: 25: 25: 25: 50 1094: 109		
		活动连接	64 /	16384 (0%)		

#### D) Record the Printer link of Advanced Network > Print Service > Link



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#### 2) WiFi Connection

A) Login the **website > Basic Network > Wireless Network,** click **SCAN** button.



#### B) Select your office WiFi network, click JOIN NETWORK button.

System Status 🔿	 Wireless Network X						*
Basic Network v	Join Network: Wire	eless Scan					
Hostnames							
Switch	Signal	SSID	Channel	Mode	BSSID	Encryption	
Static Routes	m	TP-LINK_D972	6	Master	54A7-0368D9-72	mored WPA/WPA2 - PSX	JOIN NETWORK
Wired Network							
Wireless Network	<b>d</b> ets	JHH.18885	11	Master	02:0A:EB:9F8D:60	WPA2 - PSK	JOIN NETWORK
Static address							
Advanced Network 🔿	<b>4</b> m	LEFENG_A709	2	Master	80:53:030EA7.0A	mixed IMPA/MPA2 - PSK	JOIN NETWORK
System Management >							
Logout	<b>L</b> m	chuẩu 2.45	7	Master	48/0EEC/11/20/35	mixed WPA/WPA2 - PSK	JOIN NETWORK

#### C) Fill in password in WPA passphase, click SUBMIT

System Status >	Wireless Network x
Basic Network ~	Joining Network: "TP-LINK_D972"
Hostnames	
Switch	Replace wireless configuration 😿
Static Routes	Check this option to delete the existing networks from this radio.
Wired Network	WPA passphrase
Wireless Network	Specify the secret encryption key here.
Static address	Name of the new network wwwan
Advanced Network >	The allowed characters are: A-2, a-2, 0-9 and _
System Management >	Create / Assign firewall-zone wan: wan. 2 www. www. 2 www.
Logout	Choose the firewall zone you want to assign to this interface. Select u
	BACK TO SCAN RESULTS

#### D) Click SAVE & APPLY button.



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Website: www.keennew.com Email: sales@keennew.com Whatsapp: +86 13249165907 E) Now you can double check it in the website > System Status > OverView > Network > Wireless

System will obtain an IP address automatically as xxx.xxx.248, this address need to use when add printer later

System Status 🛛 👻	41	Wireless Network x Network Diagnostics x Overview	×	
Overview		Buffered	6464 kB / 124544 kB (5%)	
Routes				
System Log		DHCP Leases		
Kernel Log		Hostname	IP Address	MAC-Address
Realtime Graphs		DESKTOP-OB7D0IT	192.168.6.173	00:E0:70:B1:32:5E
Basic Network >		DESKTOP-087D0IT	fdc5:d60e:2656::def/128	000100012616800000e070b1325e
Advanced Network >		Wireless		
System Management >		Generic MAC80211 802.11bgn Wireless Controller (radio0)	SSID: TP-LINK_D972	
Logout			Mode: Client Chamet 6 (2 437 GH2) Birtate: 120 MiN/s/ BSSID: 24.04.623.08 D1 ▲ Encryption: NPA2 PSK (CCAP) 94 ¥. Addres: 1923 (16.3.1.249	

E) Record the Printer link of **Advanced Network > Print Service > Link** 

系统状态	>	*1	概览×无线网络	各× 打印服务 ×						▶ 标签操作▼
基本网络		ŧ	石田服务							
高级网络		1	通过以下方式添加打	印机						
QoS			1011							
DMZ			7BAL						10-0-	(CHR
防火增			t.	印机名		链接		空闲	状态	珊瑚
第日转发			HP_Desk.	let_1110_series	LAN: http://19 WWAN: http://19	LAN: http://192.168.6.1:631/printers/HP_Desk.Jet_1110_series WWAN:http://192.168.200.248:631/printers/HP_Desk.Jet_1110_series			V	编辑
静态NAT										
M2M平台										
远程服务			第日							
打印服务			状态	制造商	设备型号	VID/PID	设备名	TCP监听端口		双向模式
网络监控			已禁用				/dev/usb/lp0	9100		8
系统管理			已启用	HP	DeskJet 1110 series	03f0:df11	/dev/usb/lp0	9101		z
遇出										

If the IP address of wireless is not as of xxx.xxx.248, you have to manually set static IP address for Service WAN port as following:



#### A) Basic Network > Wireless Network, click EDIT button

B) **General Setup > Protocol >** Select **Static address**, Set the IP address with the same network segment with office router and the last IP number is 248, and set a subnet, gateway, DNS address, click **SAVE & APPLY** button.

stem Status	> 41	Wireless Network #					
sic Network	~			Mode		Channel	Width
			Operating frequency	N	•	6 (2437 MHz) 🔻	20 MHz 🔻
Switch			Transmit Power	auto			
Static Routes				dBm			
Wired Network							
		Interface Configura	tion				
Static address		General Setup	Wireless Security Ad	vanced Set	ttings		
vanced Network	•		Mode	Client		•	
stem Management	*		ESSID	TP-LIN	K_D972	2	
gout			BSSID	54:A7:0	3:6B:D	9:72	
			Protocol	Static a	ddress	•	
			IPv4 address	192.168	3.1.248		
			IPv4 netmask	255.255	5.255.0		
			IPv4 gateway	192.168	3.1.1		
			Use custom DNS servers	116.116	.116.11	6 +	

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# Add A Printer

Before add a printer to your multiple computers, you need to make sure two things:

1. Each computer have installed the printer driver software, you can have direct connection between computer and printer to install driver software, or download driver software from website to manually install.

2. Directly connect computer with printer, to test if it can print successfully. If not, you need to re-install the driver software.

Here take Wired WAN connection and Win 10 for example, WiFi connection and Win XP, Win 7 are similar.

Connect an Ethernet cable between Router's LAN port and Server's WAN port, connect an Ethernet cable between Server's LAN port and Computer. Login to check Wired WAN address (example 192.168.10.248), Printer's HTTP Path address and Connecting USB Port (example 9101):

1. System Status > Over View > Network > Wired WAN Status

系统状态	~		儀説 ×					▶ 标签操作▼
概点		44. <del>*</del>						-
路由表		10.62						_
系统日志		系统						
内核日志		路由器名	M2M		产品型	년 년	PS1121-R	
实时信息		国件版本	Print Se	rver v1.1.2.0904	产品厚	列号	1120PS11908060055	
基本网络	>	本地时间	Wed Oc	t 23 09:30:43 2019	硬件类	型	打印服务	
古明网络		运行时间	15h 38r	n 52s	MACH	BAL	34:0a:68:24:70:14	
<b>B</b> \$0933	`	平均负载	0.65, 0.	17, 0.05	WAN 提	民	有线模式	
系统管理	>							
遇出		网络						
		有线 WAN	状态	eth 1	変型: dhcp 地址: 192.168.10.248 MACNUE: 34.04.68.24.70.14 子阿隆明: 255.255.255.05 阿芳: 192.168.10.1 DMS 1: 202.96.134.33 型期的问: 8h 21m 49s 已选择: 15h 38m 11s			
		活动连接			23 / 16384 (0%)			

#### 2. Advanced Network > Print Service > Link, copy the HTTP path link

系统状态	>	₭ 概范× 打印版	5 X					▶ 标签操作▼
基本网络		打印服务						
高级网络		通过以下方式添加引	160桥。					
QoS		an etc.				121		
DMZ		ADAR	打的机名		臨接		容量	壮态 编辑
防火墙				WAN- http://19	2 168 10 248-631/printers	HP Desk.let 1110 series	10	
第日转发		HP_Des	kJet_1110_series	LAN: http://1	92.168.6.1:631/printers/H	P_DeskJet_1110_series	V	✓ 编辑
静态NAT								
M2M平台								
打印服务		第日						
网络监控		状态	制造商	设备型号	VID/PID	设备名	TCP监听端口	双向模式
系统管理		已禁用				/dev/usb/lp0	9100	×
退出		已启用	HP	DeskJet 1110 series	03f0:df11	/dev/usb/lp0	9101	2
								保存并应用 軍管

There are two ways to add the printer for each network computer:

1. Use HTTP path to add printer

Find a printer by other options

1) Click computer Start > Search Control Panel > Hardware and Sound > Devices and Prints > Advanced printer setup > Click "The printer I want isn't listed" > Select a shared printer by name, paste HTTP path, click NEXT

# My printer is a little older. Help me find it. Select a shared printer by name http://192.168.10.248:631/printer/HP\_Deskjet\_1110\_series Browse... Example: \computername\printername or http://computername\printers/printername/.printer Add a printer using a TCP/IP address or hostname Add a Bluetooth, wireless or network discoverable printer Add a local printer or network printer with manual settings

Next Cancel

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2) Select your printer model, click OK, you can see add printer successfully.

🔒 添加打印机		_ 25	
按省林或 TCF	717 地址直找打印机		
	5	添加打印机向导	<u>२ ×</u>
● 按名称选择并 http://1 示佛 \\ce http://ce ● 使用 TCP/P	Windows 打印机会樂 2 正在连接到 http::631/printers/HP_DeskJet_1110_serie	k提相論育は1月1 素素。 加果想的 「育 Eson Generic 現 Hicrosoft → 这个紙助程序已经过数 告诉我为什么想动程序 — 大一梦(N) 家演	れ 四号。 如果71日 礼 有存装 繊維 会、前 単 击 " 人 総裁 打印 机 未 列 止 i 書 宣 明 打印 町 (141) 英語 (新 本 17.60 0.510) 「 近 印 1110 series 版本: 17.60 0.510) 「 近 印 1110 series 版本: 17.60 0.510) 「 近 日 110 series 版本: 17.60 0.510 」 近 110 series 版本: 17.60 0.510 ] 近 110 series Line Line Line Line Line Line Line Line
	J印机 添加 http://192.168.10.248・6	31 F00 HP D	ocklot 1110 corios
打印机名	称(P): http://192.168.10.248:6	531 上的 HP_DeskJ	et_1110_series
该打印机	已安装 HP DJ 1110 series 驱动程序。		
			T-++(N) BYNE
			下一步(N) 取消

3) Set the network printer as default printer and then test printing.

2. Use IP address + USB Port to add printer

1) Click computer Start > Search Control Panel > Hardware and Sound > Devices and Prints > Advanced printer setup > Click "The printer i want isn't listed" > Select Add a printer using a TCP/IP address or hostname, click NEXT

- 🖶 Ad	dd Printer	
Find	a printer by other options	
ОМу	y printer is a little older. Help me find it.	
⊖ Sel	lect a shared printer by name	
● A ●	Example: \\computername\printername or http://computername/printers/printername/.printer	Browse
⊖ Ad	ld a Bluetooth, wireless or network discoverable printer	
⊖Ad	ld a local printer or network printer with manual settings	
		Next Canc
) Fill ir	1 IP address of your print server	

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 Select Custom, Port fill with 9101 or 9100 (it depend on which Print Serv USB port is connecting with Printer now)

如 添加打印机	端口设置	
需要额外端口信息	端口名( <u>P</u> ):	192.168.10.248_1
网络上没有找到设备。请确定:	打印机名或 IP 地址(A): 协议	192.168.10.248
1. 设备已打开。 2. 网络巴拉卡	Raw( <u>R</u> )	© LPR(L)
<ol> <li>3. 设备配置正确。</li> <li>4. 前一页上的地址正确。</li> <li>如果您认为地址不正确。请单击"上一步"返回到上一页</li> </ol>	原始设置 第口号( <u>N</u> ):	9101
索。如果您认为地址是正确的,请选择下面的设备类型。	LPR 设置	
设备类型	队列名称(Q):	
◎ 标准(S) Generic Network Card	□ 启用了 LPR 字节计数(	( <u>B</u> )
● 自定义(C) 设置(E)	信用了 SNMP 状态(S)	)
	社区名称(C):	public
	SNMP 设备索引(型):	1

4) Select your printer model, click **Next**, you can see add printer successfully



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🕒 🖶 添加打印机	A 12 10 10 10 10 10 10 10 10 10	
键入打印机名;	你 HP DJ 1110 series (9101)	
该打印机将安装 H	P DJ 1110 series 驱动程序。	
		下一步(N) 取消

#### Select not to share this printer

加里弗共宣法会打印	] 像心须担供共喜友 像可	门店田建议的夕安武碑	) 其他网络	田山市
以看见该共享名。				/m/ ·P
◎ 不共享这台打印机	0)			
◎ 共享此打印机以便	网络中的其他用户可以找到并	使用它( <u>S</u> )		
共享名称(H):				
位置(止):				
注释( <u>C</u> ):				

5) Set the network printer as default printer and then test printing.

For any question, please contact us: Email: sales@keennew.com WhatsApp: +8613249165907

GuangZhou QiXiang Technology Co.,Ltd is a professional provider of machine-to-machine (M2M) and Internet of Things (IoT) connectivity products and services. Qi Xiang has been focusing on providing Industrial Cellular Router, Cellular Serial Modem, Network Print Server, Serial Device Server (DTU), Android Industrial Motherboard, Embedded Router Board, M2M Cloud Platform, etc.

With the powerful R&D team, efficient manufacturing plant, professional engineer and QA function, our rugged products offer mobile, high speed, reliable, flexible, 24\*7 hours connectivity for multiple fields such as Oil Field, Smart Grid, Smart City, Transportation, Industry Automation, Telco Infrastructure, Retail, Video Surveillance, etc. Our products had been passed strict quality control according to CCC, CE, ISO 9001 regulations and implemented in many well-known companies such China Mobile, China Telecom, China Unicom, KingLong Bus, UnionPay, Hive Box, etc.

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