

IR300 Series of Industrial Routers Quick Installation Manual

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InHand Networks Global Leader in Industrial IoT www.inhandnetworks.com

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Overview

This manual is for the installation and operation of IR300 series routers of InHand Network Company. InHand makes every effort to provide accurate information in

this manual, but InHand does not guarantee that there is no error in the manual. All statements, information and recommendations in this manual do not constitute any expressed or implied warranty.

Please confirm the product model and packaging accessories (power terminal, antenna). Please purchase SIM cards from local network operators.

I. Packing list

Each IR300 product includes common accessories (such as standard accessories list), please check carefully, when you receive our products.Please contact the sales staff of InHand, if there is any missing or damage.

In addition, according to different site characteristics, InHand can provide customers with optional accessories . For details, please refer to the list of optional accessories.

Accessories	Unit	Description
IR 300	1	IR300 series industrial 4G routerrouters
Hanging ear	1	Fixed router
Power terminal	1	2-pin Green Power Terminal
Ethernet cable	1	1.5 m Ethernet cable
Antenna	1	3G /4G antenna
Product warranty card	1	Warranty period 1 year
Certificate of approval	1	IR 300 series industrial 4 G router certification

Standard Accessories

Optional accessories

Accessories	Unit	Description
Power supply	1	VDC power adapter
Antenna	1	WiFi antenna
Equipment slippery course	1	Fixed router



II.Panel Introduction and Structural Size 2.1 Panel Introduction



Figure 2-1 Equipment Panel



2.2 Structural Size



Figure 2-2 Equipment Structure

III. Installation of Wireless Routers

Precautions for installation:

- Power requirements :12v DC (9~36 v DC), please pay attention to the power voltage levell; rated current is 0.2~0.22 A.
- environmental requirements: working temperature-20°C~70°C, storage temperature-40°C~85°C, relative humidity 5%~95% (no frosting), equipment surface may be high temperature, installation needs to consider the surrounding environment, should be installed in the restricted area
- Avoid direct sunlight, away from heat sources or areas with strong electromagnetic interference
- Routers support wall hanging & Slippery course installation
- Check for cables and connectors required for installation

3.1 Slippery Course Installation and Disassembly

3.1.1 Slippery Course Installation

The steps are as follows:



Step 1: Select the installation location of the device and make sure there is enough space.

Step 2: Tilt the equipment to the right 45° , so that the upper part of the DIN rail seat is stuck on the DIN rail, holding the lower end of the equipment, up slightly to rotate the equipment, the DIN rail seat can be stuck on the DIN rail. Verify that the equipment is fixed on DIN rail



Figure 3-1-1 Slippery Course Installation

3.1.2 Slippery Course Disassembly

The steps are as follows:

Step 1: Hold the bottom end of the equipment with one hand and the top end of the slippery course side with the other hand, push lower end of the device to leave the DIN rail.

Step 2: Turn the equipment clockwise and lift the equipment, removed the equipment from the DIN rail



Figure 3-1-2 Slippery Course Disassembly

3.2 Wall Hanging Installation and Disassembly

3.2.1 Wall Hanging Installation

The steps are as follows:

Step 1: Fix the hanging ear to both sides of the device with screws



Step 2: Fix the hanging ear to the wall with screws.

Figure .3-2-1 Wall Hanging Installation

3.2.2 Wall Hanging Disassembly

Use one hand to hold the device and the other hand to remove the screws with screwdriver, remove device from the fixed position

3.3 SIM Card Installation

IR300 support dual SIM card, hold down SIM pop-up button will pop up the card holder, load the SIM card



Figure 3-3 SIM Card Installation

3.4 Antenna Installation

Rotate the metal interface clockwise until the movable part can not be rotated, do not hold the black glue stick to twist the antenna.





Figure 3-4-a Glue Stick Antenna Installation



Figure 3-4-b Chuck Antenna Installation



₿ Note

IR300 support dual antennas, ANT antenna and AUX antenna. The ANT antenna is the antenna which receives and transmits data, AUX antenna can only enhance the antenna signal degree and can not receive and sent data, so it can't be used alone. Generally, only use ANT antenna.

3.5 Power Installation

The steps are as follows:

Step 1: Remove power terminal from router;

Step 2: Unscrew the locking screw on the power terminal;

Step 3: Insert the power cable into the terminal and lock the screws



Figure 3-5 Power Supply Installation

3.6 Ground Installation

The steps are as follows: **Step 1:** Unscrew the ground nut;

Step 2: Put the grounding ring of the cabinet ground wire into the ground stud;

Step 3: Tighten the ground nut.



Attention

In order to improve the anti-jamming ability of the router, the router must be grounded when it is used, and the ground wire is connected to the grounding stud of the router according to the actual use environment.

IV. Quick access to Internet

The device supports three ways of accessing the Internet: Wired, Cellular Dial-Up, WiFi note: when the device does not use Celluar Dial-up access, the "dial-up interface" must be disabled, otherwise the device cycle dial-up to the maximum number, it will lead to device restart, network business interruption.

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Figure 4 Disable Cellular Dial-Up

4.1 Wired to Internet

Step 1: Plug in the power cord and network cable according to the diagram, connect WAN port to the Internet, connect LAN2 port to PC.





Figure 4-1 Ethernet Connection

Step 2: Set the PC in the same network segment as the ip address of gateway device.

Method 1: DHCP automatically get the address (Recommended)

Method 2: Use fixed IP address, set the PC and gateway in the same address segment (DHCP Server for LAN2 Port is default enabled)

Internet 协议版本 4 Recommended		×
General Alternate Configuration	General	
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.	You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.	
Qbtain an IP address automatically	Obtain an IP address automatically	
O Use the following IP address:	● Use the following IP address:	
IP address:	IP address: 192 . 168 . 2 . 10	
Sybnet mask:	Subnet mask: 255 . 255 . 255 . 0	
Default gateway:	Default gateway: 192 . 168 . 2 . 1	
Obtain DNS server address automatically	Obtain DNS server address automatically	
O Use the following DNS server addresses:	Use the following DNS server addresses:	
Preferred DNS server:	Preferred DNS server: 8 . 8 . 8	
Alternate DNS server:	Alternate DNS server:	
Validate settings upon exit Adyanced	Validate settings upon exit Advanced	
OK Cancel	OK Cancel	

Figure 4-1-2 Dynamic acquisition/manual Configuration

PC only needs to configure the IP address to any value in:

"192.168.2.2.2~192.168.2.254"

The gateway is set to: "192.168.2.1", the subnet mask is: "255.255.255.0" The DNS is configured to "operator DNS server address".



n x

Step 3: Input the device default address 192.168.2.1 in the browser, enter the device Web page management

(If the page indicates that the page is not secure, open hidden or advanced, select continue to go)

← → Ů ฌ © 192.168.2.1/logout.cgi		□ ☆	¢	Ē	
	Router Login				
	Username				
	Fassword				
	Login				

Figure 4-1-3 Login WEB Page Management

Step 4: Configuration WAN port, click on the navigation bar "Network >>WAN/LAN Switch", select WAN mode to configure IP address of Wan port, so that the device can access to the Internet.. (Make sure the interface is in WAN mode, initial default LAN mode)

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IP Address	Netmask	Description									
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Apply	Sancel										
		Figure 4-	-1-4 WAN Pe	ort Setup							



Step 5: Three ways to assign address, dynamic DHCP(recommended), static address, ADSL dial (click application after configuration is completed)

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nared Connection(NAT)						ADSL If usin	Dialup(PP ng ADSL, n name and p	PoE)Set nake sur
IAC Address 00:18	05:30:50:01 Default Clone					been	entered co	rrectly.
Apply Cancel								

Figure 4-1-4-a Dynamic Ip Configure of WAN

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IP Address	192 168 1 29		More He	ip		
Gateway MTU Multi-IP Settings	255 255 255 0 192 168 1 1 Default ∽ 1500		InHand N	Vetworks C	o , Ltd.	
IP Address Netma	ask Description					
		Add				
Apply Cancel						

Figure 4-1-4-b Static Ip Configuration of WAN



Network Sorykos Prevendi QoS VPN Tods Application Status VANULAN switch Therefore: NANULAN switch Tode VANU Therefore: NANULAN switch Tode VANU Therefore: NANULAN switch Tode VANU Therefore: NANULAN switch Tode VANU Therefore: NANULAN switch Tode VANU Therefore: NANULAN switch Tode VANU Therefore: NANULAN switch Tode VANU Therefore: NANULAN switch Tode VANU Therefore: NANULAN switch Tode VANU Therefore: NANULAN switch Tode VANU Therefore: NANULAN switch Tode VANU Therefore: NANULAN switch Tode VANU Therefore: NANULAN switch Tode VANU Therefore: NANULAN switch Tode VANU Therefore: NANULAN switch Tode VANU Therefore: NANULAN switch	\leftrightarrow \circ \circ	() 192.168.2.1/index.jsp	
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Shared Connection(NA) Constraint and password ADS. Dialua/PPPPe-Bisetting MAC Address 0018.05.305.01 Default Clone Default and password MTU Default (NDP Default and password) Default and password Static IP	Туре	ADSL Dialup (PPPoE)	MTU: set MTU size.
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Password	Usemame		
Static IP Connection Mode Always Online Show Advanced Options Advanced Options Advanced Options Cancel Apply Cancel	Password		
Show Advanced Options Apply Cancel	Static IP Connection Mode		
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	Apply Cancel		



Step 6: Use the PING tool to verify your network connection.

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inhand Networks		Help PING More Help
System Network Services Firewall QoS VPN Tools	Application Status	Copyright @2001-2020, Beijing InHand Networks Co., Ltd.
Your password have security risk	, please click here to change!	
PING		
Host www.cicso.com Ping Ping Count 4		

Figure 4-1-5 Ping Result Diagram

4.2 SIM Card Dial-Up

Step 1: Insert the SIM card into the slot 1, /3 G/4G LTE the antenna to the ANT antenna column under the power condition of the equipment, connect the network wire to the PC and connect to the power supply.

Attention

SIM card must be replaced or plugged, power off restart to avoid data loss or equipment damage.

Step 2: Open the browser, login device WEB interface. (refer to 4.1 Wired Connections >> first and second steps)

Step 3: Click on the navigation bar "network >>Cellular" set dial-up access parameters, the device initial default on dial-up function, wait a few minutes to access the Internet.

(if not dial-up, you can restart Cellular Service).

nhand InHan	nd Networks					Enable: Use Dialup or not.
System Network	Services Firewall QoS	VPN Tools Your password have security	Application Status y risk, please click here to cl	nangel		Shared Connection: Allow devices to access internet according router.
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Index	APN	Access Number	Authentication Type	Username	Password	
1		*99#	Auto			
		*99#	Auto			



Step 4: The device supports dual card mode, when the SIM card insert card slot 2, need to enable dual SIM card function in advanced settings, private network dial parameters can be set in the dial parameter set, new click on the application, and then select at the cellular network operator.

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PPPot: Bridge			Number, Username, Password providing by Network
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Cellular 1 Network Provider	Profiles 1 V Manage		More Help
Network Select Type	Auto V		Copyright (§2001-2020, Beijing Instand Networks Co., Ltd.
Static IP			
Connection Mode	Aways Online ~		
Redial Interval	30 Seconds		
Show Advanced Options			
Dual SIM Enable			
Initial Commands	AT		
Binding ICCID			
PIN Code			
Dial Timeout	120 Seconds		
MTU	1500		
MRU	1500		
TX Oueue Length	64		
Enable IP head compression	7		
Use default asyncmap			
Use Peer DNS			
Link Detection Interval	55 Seconds(0 disable)		

Figure 4-2-2 Dialing Parameters



Step 5: Click on the navigation bar "status >> network connection" to view the network status, showing the connected and assigned IP address and other status, indicating that the SIM card has successfully accessed the Internet.

Cellular

Interface	Cellular 1
Connection Type	Dial-up
IP Address	10.103.60.136
Netmask	255.255.255.255
Gateway	1.1.1.3
DNS	218.6.200.139
MTU	1500
Status	Connected
Connection time	0 day,00:03:22

Figure 4-2-3 Dial-Up

4.3 WiFi to Internet

Step 1: WiFi the antenna to connect the WLAN antenna column, the network wire to the PC and insert the power supply.

(Please refer to "4.1 Wired Networking >> Step 1, Step 2" for login WEB interface)

Step 2: Set WiFi two working modes: AP, STA.

Mode 1: AP mode (initial default mode), the device acts as a wireless access point (Access Point) radiates the wireless signal, the terminal device can be accessed through the connection AP. Ensure that the device has been connected to the Internet through the above wired, cellular dialing mode. You can Set SSID name and encryption authentication, k terminal connection password as your need.



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Figure 4-3-1 SSID of AP

Mode 2: STA mode means that station, device does not have the function of Internet access, it needs to connect to the AP device to provide bridges for the terminal equipment that can not connect to the AP, such as the PC device.

Step 3: Click on the navigation bar "Network >>WLAN Mode Switch" to switch the working mode to the STA, then apply and restart the device as prompted.

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WLAN Type	ST	rA ∨ (*Reboot to take eff	ect)							
Apply	Cancel									

Figure 4-3-2- WLAN Mode Switch



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oot		Confirm Reboot ?						
out								
		Don't display prompt message						
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Figure 4-3-2- Reboot Device

Step 4: Click on the navigation bar "Network >>WLAN Client ", click on the scan to select the target SSID, set encryption and password.

Router -> Cellular Router ->	- a ×
\leftarrow \rightarrow O \triangle \odot 79aecafaiotinhand.com.cn:82/index.jsp	
inhand Networks	Help WLAN Client
System Network Services Firewall QoS VPN Tools Application Status	If you want to use STA function.
Your password have security risk, please click here to change!	You should enable related wan interface when you
WLAN Client	(IR3X2 enable WAN(STA)interface, IR3X1
Enable Mode 802.11b/gin ~	Enable: Enable or Disable STA.
SSID inhand-office Scan Auth Mode WPA2-PSK V	Mode: Wireless mode configuration.
Encryption Method TKIP V	SSID: The target BSSID string name configuration.
	Auth Mode: WLAN security authentication mode.
Apply Cancel	Encryption Method: STA encryption type configuration.
	More Help
	Copyright (§2001-2020, Beijing InHand Networks Co., List.

Figure 4-3-4 Selected SSID



Step 5: Click on the navigation bar "Network >>WAN (STA)", set WAN port IP parameter Three weye: dynamic address (recommended) static IP ADSL dial

Image: Services Viai Yet Yet <th>Router -> Cellul</th> <th>ar Route × +</th> <th>~</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>- 0 ></th>	Router -> Cellul	ar Route × +	~						- 0 >
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WAN(STA) pe Unmanic Address (UHICE) ared Connection(NAT) Image: Connection (NAT) fault Route Image: Connection (NAT) VL Image: Connection (NAT) U Default V 1500	system Network	Services	Firewall	Your password I	nave security risk,	please click here	to change!		Copyright @2001-2020, Beijing InHand Networks Co., Ltd.
pe Dynamic Address ared Connection(NAT) Image: Connection (NAT) fault Route Image: Connection (NAT) VC Address Image: Connection (NAT) U Default Image: Connection (NAT)					WAN(ST	A)		- 0	
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Figure 4-3-5-a Dynamic Acquisition WAN (STA) Address

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inhand InH	land Networks		Help WAN(STA)
System Netwo	rk Services Firewall QoS VPN Tools Application Status		More Help
	Your password have security risk, please click here to change!		InHand Networks Co., Ltd.
	WAN(STA)		
Type Shared Connection(NAT Default Route MAC Address IP Address Netmask Gateway MTU Multi-IP Settings	Static IP Static IP Static IP		
IP Address	Netmask Description		
]	
		Add	
Apply Car	ncet		

Figure 4-3-5- b Static IP Configuration of WAN (STA)



Router -> Cellula	Routi X + V		- 0 ×
$\leftarrow \rightarrow$ 0 a 0	79aecafa.iot.inhand.com.cn:82/index.jsp		☆ ☆ ん ピ …
inband InHar	nd Networks		Help WAN(STA)
System Network	Services Firewall QoS VPN Tools Application Status Your password have security risk, please click here to change!		WAN(STA) More Help. Copyright @2001-2020, Beijing InHand Networks Co., Ltd.
	WAN(STA)		
Shared Connection(NAT) Default Route MAC Address MTU ADSL Dialup (PPPoE) Settin Username Password Static IP	Consult local operater or relevant person for parameter	'S	
Connection Mode Show Advanced Options Apply Cancel	Aways Online		

Figure 4-3-5- c ADSL Dial Configuration of WAN (STA)

Step 6: Click on the navigation bar "Status >> Network Connection" to see the connection status, if connected and get the dynamic DHCP address, it means that the device is online.

WAN(STA) MAC Address

MAC Address	00:00:00:00:78
Connection Type	Dynamic Address (DHCP)
IP Address	10.5.20.19
Netmask	255.255.255.0
Gateway	<u>10.5.20.254</u>
DNS	<u>219.141.136.10</u> ,8.8.8.8
MTU	1500
Status	Connected
Connection time	0 day, 03:46:18
Remainding Lease	0 day, 04:13:42
Renew Release	

V. DM Cloud Management Platform 5.1 Environmental Conditions

Make sure the device has been successfully accessed Internet, click on the "Service >> Device remote management platform" of the navigation menu to set up the access of DM Cloud Platform. (Follow-up version supports user experience plan, which can automatically access Inhand Cloud Platform and enjoy efficient and convenient service)

Server address: the address of the Device Manager. The address of the Device Manager developed by InHand is as follows:

Domestic version Device Manager: c.inhandcloud.com

Overseas version Device Manager: iot.inhandnetworks.com

Domestic version InConnect: ics.inhandiot.com

Overseas version InConnect: ics.inhandnetworks.com

目 回 ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	- 0 ×
\leftrightarrow \rightarrow \circlearrowright \bigcirc 79aecafa.iot.inhand.com.cm.82/index.jsp	
inhand Networks	Help Device Manager
System Network Services Firewall QoS VPN Tools Application Status Your password have security risk, please click here to change!	More Help Copyright @2001-2020, Beijing InHand Networks Co., Ltd.
Device Manager	
Enable Service Type Server Server Registered Account mashual@inhand.com.cn Site Name LBS info Upload Interval 1 Hours Series Info Upload Interval 30 Seconds	

Figure 5-1 Remote Platform Configuration

5.2 Platform Account Creation

Jump to the registration/login page through the link below for user registration.

Link: https://iot.inhandnetworks.com.						
🔁 🖅 🥨 Device Manager 🛛 🗙 🕂 🗸				-	٥	×
\leftrightarrow \rightarrow O \textcircled{a} https://iot.inhandnetworks.com/user/login			□ ☆	\$ L	Ê	
						•
	inhand	-				
	Device Manager					
	InHand Networks Gateway Management Cloud					
	Email Login Phone Login					
	A Email					
	A Password					
	Automatic Login Reset Password					
	Login					
	Registration					
	Copyright 🕲 2018 InHand Networks v1.9.0 [20200526]					

Figure 5-2 Account Registration/Login

5.3 Add Device to Platform

Login to DM platform address https://iot.inhandnetworks.com, click on "Gateway >> Create" menu to add device.

Name the device and fill in the serial number, the device can be added to the cloud platform.

🕒 🖷 👁 Gateways - Dev	rice Man 🗙 🕂 🗸					- a ×
\leftrightarrow \rightarrow \circlearrowright \Leftrightarrow	https://iot.inhandnetworks.com/device/list?page=1	8csize=10			□ ☆	☆ & & …
C Device Manager	Home Map Gateways Config	Firmware Edge Com	puting Administration		🛞 mashu	ai@inhan 🌐 🕜
Gateways	Home / Gateways / Gateways					
🖨 Gateways	All 0 Online 0 Offline 0 Name	Create Gateway		×	+ Create 🔢 Import 🕼 Export	:≡ Column Display
道 Alert	Gateway Name			_	Firmware Version	Û
Groups		* Gateway Name :	Gateway Name			
Tasks		* Serial Number:				
CAN Statistics						
				Court Of		
				Cancel		
Collapse sidebar						

Figure 5-3- Add Device to Platform

View Serial Number Method

Click on the navigation bar "status" to view the device sequence and other basic information, or on the back of the device to view the serial number.

nand Intratio	d Networks	System
		Display system info.
System Network	Services Firewall QoS VPN Tools Application Status	Sync Time: synchronize
	Your password have security risk, please click here to change!	Mars Hole
	System	Copyright @2001-2020, Beijing
		an and residence out, the
ame	KOULEF IN AN	
odel	IRTOUC-WEARN	
escription	Kitolize	
urrent Version	2.3.0.15179	
urrent Bootloader Version	1.1.3.:4954	
outer Time	2020-06-26 18:48:41	
C Time	2020-06-25 18:48:40 Sync Time	
p time	0 day, 01:44:52	
PU Load (1/5/15 mins)	0.12/0.06/0.05	
emory consumption Total/Free	121.29MB / 94.38MB (77.82%)	
	0 33	Seconds V Stop

Figure 4-5-3- b Serial Number Query

VI. Quick-Use Guidance

6.1 Restore Factory Setting

6.1.1 Web Setting

Login to the WEB page, click on the "System>> Configuration Management" menu in the navigation tree to enter the "configuration management" interface. Click the "restore factory settings" button to determine the recovery of the factory after the configuration, restart the system, restore factory success.

Figure 6-1-1 Restore Factory Settings

6.1.2 Hardware Restored

Steps:

step 1: find the RESET reset key on the device panel.

Step 2: Hold down the RESET key for 10 seconds.

Step 3: When you see the Status light on, release the RESET key;

Step 4: After a few seconds when the Status lights go out, then re-hold the RESET key not release;

Step 5: When you see the Status light flashing release the RESET key, indicating that the recovery factory settings are successful.

6.2 Import/Export Configuration

Login to the WEB page, click on the "System>> Configuration Management" menu in the navigation tree to enter the "configuration management" interface.

🔁 🗗 Router -> Cellular Router 😣 Vellular Router 😣 +	- 0 ×
\leftrightarrow \rightarrow \circlearrowright \diamond	* * * * *
inhand Networks	Help Config Management
System Network Services Firewall QoS VPN Tools Application Status Your password have security risk, please click here to change! Router Config Management	Router Configuration: Click 'Import' to import a backup configuration of router. Click 'Backup' to backup current configuration of router. Restore default configuration: Restore default configuration of router.
No file selected. Browse Import Backup Restore default configuration	Network Provider(ISP): Click 'Import' to import an ISP list. Click 'Backup' to backup current ISP list of router. This list is provided by router vendor.
No file selected. Browse Import Backup	Disable the hardware reset button: If you disable the hardware reset button, please take care of your login password, if the password is lost, the device will not be recovered.
	More Help
	Copyright @2001-2020, Beijing InHand Networks Co., Ltd.

Figure 6-2 WEB interface restore factory settings

Click Browse to select the profile, and then click the Import button. After importing the configuration file, restart the system to take effect.

Click Backup to export the configuration parameter file currently being applied and the exported file is. dat format, default file name config.dat.

6.3 Log and Diagnostic Records

log in to the Web page, click on the "Status >> Log" menu in the navigation tree to enter the "system log" interface. Click the corresponding button to complete the log and diagnostic records download.

5	→ O @	① 79aeca	faiotinhand.com.cn:82/index.jsp	A FLB		
С Л	and Inl	Hand N	Jetworks	Help Help		
1				Display system log.		
Sys	tem Netv	vork Servi	ces Firewall QoS VPN Tools Application Status	More Help		
			Your password have security risk, please click here System	Copyright @2001-2020, Beijing InHand Networks Co., Ltd.		
			Modem	-		
			Log			
		00	ITame Statistics	á		
view	recent	20	V Lines Alarm			
		Marchala	WLAN			
Leve	i lime	Module	Loncent Tag many lang ald lang are not dealand. Disage doubled langlik to shark many langt			
info	lup 26 20 49 39	parok[4113]	Too many logs, out logs are not uspanyed. Frease download log lie to Creck mare logs? NetWork Consection_>Consected Consection_>			
info	Jun 26 20:49:43	mottagent[1138]	Send out task update messane fold* "5ef5eee0f871e00001c45734" "type" 23 "status" "success" 10 "response" 10 "response" 11//78aecafa jot inhand com cn 82"			
info.	Jun 26 20:49:56	httpd[4119]	Web auth succeeded for adm from 127.0.0.1 Device Manager			
info	Jun 26 20:49:56	httpd[4119]	adm login from 127.0.0.1 Route Table			
notice	Jun 26 20 56 21	ngrok[4113]	ngclient req timeout close client.			
info	Jun 26 20:56:21	syslog	ngclient close tunnel Device List			
info	Jun 26 20:56:21	mqttagent[1138]	ngrokc exit(pid:4113). Log			
info	Jun 26 21:05:03	mqttagent[1138]	topic: v1/5edf39448d9f6700015e9043/lbs, payload : ("cell": (), "timestamp": "2020-06-26T13:05:03+0(
info	Jun 26 21:05:03	mqttagent[1138]	topic: v1/5edf39448d9f6700015e9043lseries, payload : [["id":"300011","value":0,"timestamp":"2020.00 ["id":"300009","value":0,"timestamp":"2020-06-26T12:04:51+0000 Software Notices			
info	Jun 26 21:19:34	mqttagent[1138]	received notification message (topic v1/5ed/39448498700015e9043/taskinotice, payload ("id":"5el5/be5/8/1e00001c45/35", "name", "ngrok connect", "type":23, "data". ["server","iot.inhand.com.cn:4443", "proto", "http:","port":8			
nfo	Jun 26 21:19:34	mqttagent[1138]	handle ngrok notice.			
info	Jun 26 21:19:34	mqttagent[1138]	ngrok server iot inhand.com.cn.4443 protocol http://doi.org/10.1.port.80, keepalive.300			
info	Jun 26 21:19:34	ngrok[4304]	remotehost 54 223 100 252 prot 4443 protocol http localhost 127.0.0.1 localport 80 regid 600881523 keepalive 300			
info	Jun 26 21:19:34	ngrok[4304]	state. Init->Config			
info	Jun 26 21:19:35	ngrok[4304]	state: Config->Connecting			
nfo	Jun 26 21:19:35	ngrok[4304]	state:Connecting>Connected			
info	Jun 26 21:19:39	mqttagent[1138]	send out task update message ("hd": "5elf6f5e5f871e00001c45735", "type": 23, "status": "success", "timestamp": 1593177579, "progress": 1.0, "response": "http://79aecafa.iot.inhand.com.cn.82")			
info	Jun 26 21:19:45	httpd[4312]	Web auth succeeded for adm from 127.0.0.1			
info	Jun 26 21:19:45	httpd[4312]	adm login from 127.0.0.1			
			Clear Log Download Log File Download System Diagnosing Data			

Figure 6-3 Diagnostic Log Function

VII. Description of panel indicator7.1 Panel LED Indicator Description

Figure 7-1	Led	Indicator	Description
------------	-----	-----------	-------------

Equipment LED Light Description Table:

Power(red)	Status(Green)	Cellular(Wong)	Definition
Off	Off	Off	No Power
On	Off	Off	System Fault
On	On	Off	Module or SIM Card not identified

On	On	Flash	Dialing
On	On	On	Dialing Success
On	Flash	On	System Upgrade
On	Flash -> On	Off	Finalized Writing -> Finalized Writing

reset key description (both start-up and run support to restore factory): Power 1. device, press reset button immediately, hold for 10 seconds until Status is on

2. release the Reset, Status destroy

3. immediately hold down Reset, then Status flicker, release the Reset button, restore factory success

Note:

	Red	Signal values 0~10
	Yellow	Signal value 11~20
Signal	Green	Signal value 21~30
	Not enabled	Destruction
Wi-Fi(Green)	AP	Flash
	STA	Data flash
Lamps	Driven Control	Yellow green, data flash

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