WF-2572

Ethernet to Wi-Fi Bridge

User Manual v1.00





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Document Revision

Version	Date	Note
1.00	2018/09/30	Release version

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1. Introduction

The WF-2572 is an industrial Ethernet to Wi-Fi Bridge. The device only needs to connect the Ethernet cable with WF-2572 that can create an IEEE 802.11 a/b/g wireless personal network. The interface between Ethernet and Wi-Fi use transparent transmission so that it can convert Wi-Fi to wire internet without complex settings. The WF-2572 also supports dual bands (2.4/5 GHz). The 2.4 GHz is more crowded than 5 GHz. Therefore, the devices on 2.4 GHz suffer much more interference than the ones on 5 GHz. The WF-2572 has less interference on 5 GHz.



Figure 1-1. The application architecture of WF-2572

1.1 Feature

- ► Frequency: 2.4/5 GHz
- ► Full compatible with IEEE 802.11 a/b/g
- Support Wi-Fi Limit-AP and Infrastructure mode
- Support WPA-PSK, WPA2-PSK for Wi-Fi encryption
- Plug-and-Play Ethernet to Wi-Fi connectivity
- USB-based configuration
- No driver installation required
- Built-in Watchdog
- Extended operating temperature range ($-25^{\circ}C \sim +75^{\circ}C$)

1.2 Utility

- Configuration by USB interface
- Support setting of Wi-Fi Infrastructure and Limit-AP mode

35 WF-2572 Utility	- 🗆 X	
Wi-Fi Parameter Mode: Infrastructure ▼ SSID: W Operation Band: 2.4 GHz ✓ Authentication: W Channel: 11 ✓ Password: Iq	F-2572 PA/WPA2 💌 [az2wsx	
MAC MAC: FF : FF : FF : FF : FF Get MAC The MAC only can modify when the mode is "Station".		
IP IP: 192 168 255 1 FW Date:	۱ 	
Submask: 255 255 0 Gateway: 192 168 255 1 Write Setting Read Setting		
Utility Version: V1.00		

Figure 1-2. WF-2572 Utility

2. Hardware

2.1 Specifications

RF Specification			
Standard	IEEE 802.11 a/b/g		
F	2.4 GHz: CH1~11		
Frequency	5 GHz: CH36 \ 40 \ 44 \ 48		
Operation mode	Limit-AP / Infrastructure		
Encryption	Open/WPA/WPA2		
	Omni-Directional		
Antenna	3 dBi @ 2.4 GHz		
	5.5 dBi @ 5 GHz		
Transmission Range	50 m (LOS)		
Ethernet			
Controller	100Base-TX Ethernet Controller (Auto-MDIX)		
Connector	RJ-45 with LED indicator		
USB Interface			
Туре	USB 2.0 Full-Speed		
Connector	USB type B		
LED Indicator			
System status	3 Indicator LEDs (PWR, LINK, COMM)		
Signal strength	3 Indicator LEDs (High, Mid, Low)		
Power			
Input Voltage Range	10 ~ 30VDC		
Power Consumption	1.6 W		
Mechanism			
Casing	Plastic		
Installation	DIN-Rail		
Dimensions	33mm x 95mm x 120mm (W x L x H)		
Environment			
Operation Temp.	-25°C ~ +75°C		
Storage Temp.	$-30^{\circ}\mathrm{C} \sim +80^{\circ}\mathrm{C}$		
Humidity	10~90%		

2.2 WF-2572 Appearance

2.2.1 Front Panel

The WF-2572 front panel contains the antenna, USB connector, Ethernet connector and LEDs.



Figure 2-1. Front Panel of the WF-2572

2.2.2 Top Panel

The WF-2572 top panel contains the power connector and operating mode selector switch.

- FW mode: Firmware update mode
- OP mode: Firmware operation mode



Figure 2-2. Top Panel of WF-2572

Table	2-1. Powe	er Connector
-------	-----------	--------------

Power Connector		
Pin Assignment	Description	
F.G	Frame Ground	
GND	Power GND	
+Vs	+10 ~ +30 VDC	

2.2.3 LED Indicator

The LED Indicator can be divided into two types. The one is signal strength indicator. The other is system status indicator. The description of the LED indicator as shown in Table 2-2.

LED	LED Status	Description		
Limit-AP mode				
Signal strength-Green	Always ON	Device at Limit-AP mode		
	Always ON	AP at 2.4 GHz		
Signal strength-Yellow	OFF	AP at 5 GHz		
	Always ON	Power Good		
Power (PWR)	OFF	Power failure		
	Blink/Always ON	Unconnected		
Connection Status(LINK)	OFF	Connected		
	Blink	Data transmission		
Communication(COMM)	OFF	Bus Idle		
Infrastructure mode				
	•••	Signal strength: High		
	0 • •	Signal strength: Medium		
Signal strength	00	Signal strength: Low		
	000	Unconnected		
	Always ON	Power Good		
Power (PWR)	OFF	Power failure		
	Blink/Always ON	Unconnected		
Connection Status(LINK)	OFF	Connected		
	Blink	Data transmission		
Communication(COMM)	OFF	Bus Idle		

Table 2-2. The description of LED indicator

2.3 Power wire connection

The power wire connection of WF-2572 has shown in Figure 2-3.



Figure 2-3. Power wire connection of WF-2572

2.4 Watchdog Timer Setting

A watchdog timer (WDT) is a device that performs a specific operation after a certain period of time if something goes wrong and the system does not recover on its own. A watchdog timer can perform a warm boot (restarting the system) after a certain number of milliseconds.

The WF-2572 supplies a jumper for users to active the watchdog timer or not. Inside the WF-2572 users can use the <u>JP1</u> to activate the WDT built in the module, as the Figure 2-6. Note that the default setting is active.





Figure 2-4. Watchdog Setting

2.5 FW / OP Dip-switch

On the top of the WF-2572 series module, there is a dip-switch used for <u>firmware</u> <u>operation</u> or <u>firmware update</u> modes selection of the module.

2.5.1 Firmware update mode

As shown in Figure 2-5, it need to set the dip-switch to the "FW" position after that the WF-2572 will work in the "<u>Firmware Update Mode</u>" after reset the power. In this mode, users

can update the firmware of the WF-2572 via USB interface and it will become a "USB Mass Storage Device" and shows a folder automatically.





Figure 2-5. FW update position of Dip-Switch

Figure 2-6. USB Mass Storage Device

Users just need to execute "Firmware_Update_Tool.exe" and follow the below steps to complete the firmware updating process.

Step1. Choose "USB" interface and "USB Disk".

Step2. Click "Browser" button to choose firmware file. (e.g. WF2572_V100.fw)

Step3. Click "Firmware Update" button to start firmware updating process.

The result will be showing in "Firmware Update" field.

FW_Update_Tool v1.06
1. Download Interface COM USB Disk : USB F: 2 www.icpdas.com
2. Firmware Path D:\PJ\Wi-Fi\Bridge\WF-2571\Firmware\WF-2571\Obj\WF2571.fw 3 Browset
3. Firmware Update Firmware Update Success ! Please Reboot Module !
Exit

Figure 2-7. WF-2572 firmware update process

The WF-2572 firmware can be downloaded from

ftp://ftp.icpdas.com/pub/cd/usbcd/napdos/wifi/WF-2572/firmware/

The Firmware_Update_Tool can be downloaded from

ftp://ftp.icpdas.com/pub/cd/usbcd/napdos/wifi/WF-2572/software/tool/

2.5.2 Firmware Operation Mode

As shown in Figure 2-8, Users need to set the dip-switch to the "OP" position and reset the power, which the WF-2572 can run in the operation mode. In this mode, user can use the WF-2572 with a computer or other devices that have Ethernet interface for wireless connection.



Figure 2-8. OP Position of Dip-Switch

2.6 Dimensions

The diagrams below provide the dimensions of the WF-2572 to use in defining your enclosure specifications. All dimensions are in millimeters.



Figure 2-9. Front / Left side dimension of the WF-2572



Figure 2-10. Top / Bottom side dimension of the WF-2572 $\,$

3. Software

This chapter explains how to use the WF-2572 Utility to carry on the WF-2572 wireless communication configuration.

3.1 Wireless Configuration Tool – WF-2572 Utility

WF-2572 utility is a Microsoft Windows application that compatibles with Microsoft Windows XP, 7 and 10.

The WF-2572 Utility can be downloaded from

ftp://ftp.icpdas.com/pub/cd/usbcd/napdos/wifi/wf-2572/software/utility/

3.2 WF-2572 Utility

The main screen of WF-2572 utility has shown in Figure 3-1; Users can configure the wireless communication settings via this interface.

	🏽 WF-2572 Utility — 🗆 🗙			
Wi-Fi Paramete	Wi-Fi Parameter Mode: Infrastructure SSID: WF-2572 Operation Band: 2.4 GHz Channel: 11 Password: 1qaz2wsx	42 🗸		
Device MAC	MAC MAC: FF : FF : FF : FF : FF The MAC only can modify when the mode is "Station".	Get MAC		
IP Settin	IP Firmware Information IP: 192 168 255 1 Submask: 255 255 0 Write Setting	Dood Cotting		
	Utility Version: V1.00	Read Selling		

Figure 3-1. WF-2572 Utility

3.3.1 Wi-Fi Parameter

The Wi-Fi parameter can be divided into six types. The description of Wi-Fi parameter has shown in Table 3-1.

Wi-Fi Parameter	Description	
Mode	The Wi-Fi role of WF-2572.	
	The Wi-Fi role consists of Station (Infrastructure) and AP	
	(Limit-AP).	
	Wi-Fi SSID	
	1. It can set the AP's SSID when the mode is "Limit-AP".	
SSID	2. The SSID mean that the Wi-Fi AP which WF-2572 would	
	like to connect when the mode is "Infrastructure".	
	* Connected devices must be with the same SSID	
Operation Band	The operation band of WF-2572.	
	The WF-2572 supports 2.4/5 GHz.	
	The encryption of WF-2572	
Authentication	Encryption of Wi-Fi, connected devices must with the same	
	encryption.	
Channel	Wi-Fi transmission channel setting	
	CH 1~11: operation band is 2.4 GHz.	
	CH 36/40/44/48: operationband is 5 GHz	
	*The channel can change when the role is "Limit-AP".	
Password	Key of Encryption, connected devices must with the same	
	password.	
	*The length of password is 8~63 characters.	

Table 3-1. Description of Wi-Fi Parameter

3.3.2 Device MAC

The device MAC must be setting when device is in the "Infrastructure" mode. If user didn't know device's MAC address, the utility can use for searching device MAC. The user can use the "Get MAC" button for searching device mac. The following step show that how to get device MAC from utility.

Step1. Please connect the Ethernet cable between PC and device.

Step2. Please fill in the IP address of the device.

Step3. The utility will display the device MAC address after clicking "Get MAC" button.

Step4. The utility will appear a successful message when the utility get the MAC from the device.



Note: The PC and device must be in the same IP segment.



Figure 3-2. device MAC search

Figure 3-3 Success message

3.3.3 IP Setting

The IP setting only support with the "Limit-AP" mode.

-IP				
IP:	192	168	255	1
Submask:	255	255	255	0
Gateway:	192	168	255	1
Gateway:	192	168	255	1

Figure 3-4. Device IP Setting

4. Application Setting

Users can use two WF-2572s or one WF-2572 module with the computer that supports

wireless network connection structure in the application.

The WF-2572 supports two Wi-Fi roles for suffice the purpose. One is Limit-AP mode.

The other is Infrastructure mode. The chapter 4 will explain the Wi-Fi setting and application

architecture in the "Limit-AP" and "Infrastructure" mode.

4.1 System Architecture of Infrastructure Mode

The system architecture of infrastructure mode shows in Figure 4-1. WF-2572 can connect

one device by the Ethernet interface. The WF-2572 will convert the Ethernet to Wi-Fi interface.

The WF-2572 will connect to the Wi-Fi AP at the infrastructure mode. The Wi-Fi AP can be

WF-2572 or other APs. The device can access Wi-Fi network after connecting to Wi-Fi AP.



Figure 4-1. System Architecture on Infrastructure Mode

4.2 System Architecture of Limit-AP Mode

The system architecture of infrastructure mode shows in Figure 4-2. The WF-2572 has only one LAN port. But it can use the Ethernet switch to extend LAN port. The WF-2572 can connect by other Wi-Fi stations in the "Limit-AP" mode. The Wi-Fi can be WF-2572 or other Wi-Fi devices.



Figure 4-2. System Architecture on Limit-AP Mode

4.3 Hardware Installation

The associated hardware configuration is shown as following steps.

Step1. Checking the WF-2572 operation mode

It needs to set the DIP switch to the "OP" position (operating mode). As resetting the power, it will cause the device to operate in the operation mode.



Figure 4-3 "OP" Position

Step2. Power connection

As shown in Figure 2-3, it needs to connect the power supply to power terminator of WF-2572.

Step3. USB port connection

WF-2572 supports USB communication for wireless configuration. If it does not need to modify the parameter settings, this step can be omitted.

4.4 Infrastructure Setting Description

4.4.1 Test Architecture

The test architecture shows in Figure 4-4. The WF-2572 connects to the PC by Ethernet interface. The Wi-Fi AP connects to other PC by Ethernet interface. The WF-2572 set to "Infrastructure" mode that it connects to the Wi-Fi AP.





4.4.2 Setting step

The WF-2572 has three steps. The setting step shows as following:

Step1. Set WF-2572 to "Infrastructure" mode and Wi-Fi parameter

- 1. Change "Mode" to "Infrastructure"
- 2. Set AP SSID
- 3. Set authentication of Wi-Fi
- 4. Set password of Wi-Fi
- 5. Set device MAC. If you didn't know the device's MAC, you can refer to chapter 3.3.2.
- 6. Click "Write Setting" to save setting

꺯 WF-2572 Utility	- 🗆 X
Wi-Fi Parameter Mode: Infrastructure • Operation Band: 2.4 GHz • Channel: 11 •	SSID: WF-2572 2 Authentication: WPA/WPA2 3 Password: Iqaz2wsx 4
MAC MAC: FF : FF : FF : FF : The MAC only can modify when the	FF : FF G Get MAC
IP IP: 192 168 255 1	Firmware Information Version: FW Date:
Submask: 255 255 0 Gateway: 192 168 255 1	Write Setting 6 Read Setting
Utility Version: V1.00	

Figure 4-5. Infrastructure setting step

Step2. Set Computer's IP

1. Please set the computer's IP to 192.168.255.10 and 192.168.255.11.

Internet Protocol (TCP/IP) P	Properties 🛛 🖓 🔀	Internet Protocol (TCP/IP) Properties	
General		General	
You can get IP settings assigned this capability. Otherwise, you ne the appropriate IP settings.	d automatically if your network supports sed to ask your network administrator for	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.	
O <u>O</u> btain an IP address autor	natically	O Datain an IP address automatically	
O Use the following IP address		O Use the following IP address:	
IP address:	192 . 168 . 255 . 10	192 . 168 . 255 . 11	
S <u>u</u> bnet mask:	255.255.255.0	Subnet mask: 255 . 255 . 0	
Default gateway:	· · ·	Default gateway:	
O Obtain DNS server address	automatically	Obtain DNS server address automatically	
O Use the following DNS served as a served of the serv	ver addresses:	O Use the following DNS server addresses:	
Preferred DNS server:		Preferred DNS server:	
Alternate DNS server:	· · ·	Alternate DNS server:	
	Ad <u>v</u> anced	Advanced	
	OK Cancel	OK Cancel	

Figure 4-6. set computer IP

Step3. Internet connection test

- The Windows(>> + R will show you the "RUN" box where you can type commands to either pull up a program. The command line windows will be opening after typing "cmd" at the "RUN" box.
- 2. Please execute following command on the command line window.

Command 1: ping 192.168.255.10

Command 2: ping 192.168.255.11

3. As shown in Figure 4-7, the internet access is working fine that it should show a similar reaction as following figures.

C:\WINDOWS\system32\cmd.exe	選取 C:\WINDOWS\system32\cmd.exe
C:\Users\Jack_ICPDAS>ping 192.168.255.10	C:\Users\Jack_ICPDAS>ping 192.168.255.11
Pinging 192.168.255.10 with 32 bytes of data: Reply from 192.168.255.10: bytes=32 time<1ms TTL=128 Reply from 192.168.255.10: bytes=32 time<1ms TTL=128 Reply from 192.168.255.10: bytes=32 time<1ms TTL=128 Reply from 192.168.255.10: bytes=32 time<1ms TTL=128	Pinging 192.168.255.11 with 32 bytes of data: Reply from 192.168.255.11: bytes=32 time<1ms TTL=128 Reply from 192.168.255.11: bytes=32 time<1ms TTL=128 Reply from 192.168.255.11: bytes=32 time<1ms TTL=128 Reply from 192.168.255.11: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.255.10: Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds: Minimum = Oms, Maximum = Oms, Average = Oms	Ping statistics for 192.168.255.11: Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds: Minimum = Oms, Maximum = Oms, Average = Oms
C:\Users\Jack_ICPDAS>_	C:\Users\Jack_ICPDAS>_

Figure 4-7. Ping Success

4.4.3 Query device MAC by using WF-2572 utility

According to the type of device, it can be divided into different query methods. When the device is computer, it can use the command line windows to query the MAC address. If the device is PLC or other Ethernet devices, it can use the WF-2572 utility to query the MAC address.

1. Device: Computer

Setp1. The Windows(**P**) + R will show you the "RUN" box where you can type commands to either pull up a program. The command line windows will be opening after typing "cmd" at the "RUN" box.

Step2. Please execute "ipconfig/all" command on the command line window. The computer's MAC will show at the command line windows. The result has shown in Figure 4-8.

C:\WINDOWS\system32\cmd.exe	-
C:\Users\Jack_ICPDAS>ipconfig /all Windows IP Configuration	
Host Name	DESKTOP-L641TGT Hybrid No No
Ethernet adapter 乙太網路:	
Connection-specific DNS Suffix . : Description	Realtek PCIe SBE-Family Controller 40-8D-5C-1C-DE-8C No Yes

Figure 4-8. Computer's MAC

2. Device: PLC or other Ethernet devices

Step1. Connect the Ethernet cable between computer and PLC

It needs to remove the Ethernet cable between device (PLC or other Ethernet devices) and

WF-2572. After that, you can connect the Ethernet to the computer.

Step2. Execute WF-2572 utility

- 1. Click the "Get MAC" button after executing the WF-2572 utility.
- 2. Please fill in the IP address of the device (PLC or other Ethernet devices).
- 3. Click the "Get MAC" button.

Note: That the device and computer must be on the same network segment.

	🎉 devie_MAC – 🗆 X
5 WF-2572 Utility − □ ×	Step1. Please connect Ethernet cable to the target device.
Wi-Fi Parameter Mode: Infrastructure SSID: WF-2572 Operation Band: 2.4 GHz Authentication: WPA/WPA2	PC Cable Target Device
Channel: 11 Password: Iqaz2wsx	Step2. Please input the IP of target device on the textobx.
MAC MAC: FF : FF : FF : FF : FF Get MAC The MAC only can modify when the mode is "Station".	Target device IP 192 168 1 Get MAC
IP IP: 192 168 255 1 Firmware Information Uersion: FW Date:	Message X
Submask: 255 255 0 Gateway: 192 168 255 1 Write Setting Read Setting	Gi Success!
Utility Version: V1.00	[[]]] 種定

Figure 4-9. Query IP form PLC or other Ethernet devices

4.5 Limit-AP Mode

4.5.1 Test Architecture

The test architecture has shown in Figure 4-10. Both of WF-2572 connects to the computer by Ethernet. One of the WF-2572 sets to the Limit-AP mode. The other WF-2572 sets to the Infrastructure mode.



Figure 4-10. Limit-AP of Test Architecture

4.5.2 Setting step

As shown in following step, the WF-2572 has four setting steps on the Limit-AP mode.

Step1. WF-2572 Limit-AP parameter setting

- 1. Please change the mode to the "Limit-AP" \circ
- 2. Please select the operation band of WF-2572.
- 3. Please select the AP's Wi-Fi channel.
- 4. Please set the AP's SSID.
- 5. Please set the AP's authentication.
- 6. Please set password of AP.
- 7. Please set IP/Submask/Gateway of WF-2572
- 8. Please click the "Write Setting" button to save the setting.

🎉 WF-2572 Utility —	×			
Wi-Fi Parameter				
Mode: Limit-AP 🔽 🚺 SSID: WF-2572	4			
Operation Band: 2.4 GHz 2.4 GHz Authentication: WPA/WPA2 	5			
Channel: 11 🔹 3 Password: 1qaz2wsx	6			
MAC				
MAC: FF : FF : FF : FF : FF Get MAC				
The MAC only can modify when the mode is "Station".				
IP Firmware Information Version:				
FW Date:				
Submask: 255 255 0				
Gateway: 192 168 255 1 Write Setting Read Setting				
Utility Version: V1.00				

Figure 4-11. Setting Wi-Fi Parameter

Step2. The WF-2572's Infrastructure setting can refer to chapter 4.4.

Step3. Setting PC's IP

1. As shown in Figure 4-12, the PC's is "192.168.255.10" and "192.168.255.11".

Internet Protocol (TCP/IP) Properties	Internet Protocol (TCP/IP) Properties	
General 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.	
O Obtain an IP address automatically	O Dbtain an IP address automatically	
O Use the following IP address:	● Use the following IP address:	
IP address: 192 . 168 . 255 . 10	P address: 0.0000000000000000000000000000000000	
Subnet mask: 255 . 255 . 0	Sybnet mask: 255 . 255 . 0	
Default gateway:	Default gateway:	
O Distain DNS server address automatically		
O Use the following DNS server addresses:	O Use the following DNS server addresses:	
Preferred DNS server:	Preferred DNS server:	
Alternate DNS server:	Alternate DNS server:	
Advanced Advanced		
OK Cancel	OK Cancel	

Figure 4-12. Setting PC's IP

Step4. Internet Connection

 The Windows (*) + R will show you the "RUN" box where you can type commands to either pull up a program. The command line windows will be opening after typing "cmd" at the "RUN" box. 2. Please execute following command on the command line window.

Command 1: ping 192.168.255.10

Command 2: ping 192.168.255.11

3. As shown in Figure 4-13, the internet access is working fine that it should show a similar reaction as following figures.

C:\WINDOWS\system32\cmd.exe	國 選取 C:\WINDOWS\system32\cmd.exe
C:\Users\Jack_ICPDAS>ping 192.168.255.10	C:\Users\Jack_ICPDAS>ping 192.168.255.11
Pinging 192.168.255.10 with 32 bytes of data: Reply from 192.168.255.10: bytes=32 time<1ms TTL=128 Reply from 192.168.255.10: bytes=32 time<1ms TTL=128 Reply from 192.168.255.10: bytes=32 time<1ms TTL=128 Reply from 192.168.255.10: bytes=32 time<1ms TTL=128	Pinging 192.168.255.11 with 32 bytes of data: Reply from 192.168.255.11: bytes=32 time<1ms TTL=128 Reply from 192.168.255.11: bytes=32 time<1ms TTL=128 Reply from 192.168.255.11: bytes=32 time<1ms TTL=128 Reply from 192.168.255.11: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.255.10: Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds: Minimum = Oms, Maximum = Oms, Average = Oms	Ping statistics for 192.168.255.11: Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds: Minimum = Oms, Maximum = Oms, Average = Oms
C:\Users\Jack_ICPDAS>_	C:\Users\Jack_ICPDAS> _

Figure 4-13. Ping Success

5. Technical Support

Please contact us if you have any questions about products.

ICP DAS website: <u>http://www.icpdas.com</u> Email: <u>service@icpdas.com</u>