PHICOMM

User Manual

150Mbps Wireless N USB Adapter FWN-650N

User Manual / V2.0

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Chapter 1: Introduction

Product Overview

Thank you for choosing FWN-650N wireless N USB adapter.

FWN-650N allows users to connect desktop or notebook computer to the internet anywhere in your house without the hassle of messy wires. Designed with high performance wireless N technology for better signal and coverage, the adapter is ideal for you to watch movies, transfer photos, and download music from your couch, home office or the backyard with ease. Wi-Fi Protected Setup (WPS) button provides a quick and secure wireless connection at the push of a button.



Main Features

- USB 2.0 portable design
- Wireless N speed up to 150Mbps, ideal for internet surfing, on-line gaming
- Quick wireless security setup by simply pressing the WPS button
- Supports dual-operating mode: Station mode and Access Point mode
- Supports WEP encryption, as well as WPA/WPA2 and WPA-PSK/WPA2-PSK encryptions
- Supports Windows 7/Vista/XP/2000
- Backward compatible with 802.11b/g product
- Setup wizard simplifies installation



Chapter 2: Installation

Driver Installation

Note:

- DO NOT plug the USB Adapter into your computer before installing the driver from CD-ROM.
- Please download the driver from our website **www.phicomm.com** if your computer is not equipped with CD driver.
- 1) Insert the enclosed CD into your computer, the Setup Wizard will pop up on the screen

automatically. Or please click **My computer** – **CD-ROM drive** (



2) Click Install Driver and follow the step-by-step instructions to finish the driver installation.

PHICOMM	150Mbps USB Adapter
	Welcome to choose our product
	Install Driver
	Quick Installation Guide
PHICOMM	User Manual
**	Install Adobe Reader
\times	
	×



3) The computer will reboot automatically at the end of installation, it is time to plug the

wireless adapter into your computer. A wireless icon 📶 will appear in your taskbar, and an

adapter shortcut will show in your desktop.

Network Connection

1) Double click the adapter shortcut, a utility page will pop up. Click **Available Network**, the available networks are listed in the table, choose the network that you would like to connect, and click **Add to Profile**.

fresh(R) Mode(M) Abo		3 2.0 Network Adapte	Johny			
MyComputer	General Profile	Available Network Statu:	s Statistics V	Wi-Fi Protect Setup		
	Available Netw	nrk(s)				
	SSID	Channel	Encryption	Network Authentication	Signal	1
	T ⁽¹⁾	6	None	Unknown	46%	Ir
	1°001	6	AES	WPA Pre-Shared Kev	74%	Ir
	PHICOMM		TKIP/AES	WPA Pre-Shared Key/	100%	In
	10 IO	6	TKIP/AES	WPA2 Pre-Shared Key	46%	Ir
	1 ⁹⁾ 10	- 6	TKIP/AES	WPA2 Pre-Shared Key	96%	Ir
	L ³⁾	11	None	Unknown	58%	Ir
	L.)	11	None	Unknown	76%	Ir
	13	11	TKIP/AES	WPA 802.1x/WPA2 80	26%	Ir
	🚺 🎝 🖓 mtkemp	11	TKIP/AES	WPA 802.1x/WPA2 80	42%	Ir
	1 ²⁰ mtkguest	11	None	Unknown	26%	Ir
	<					
						>
		Refresh		Add to Profile]	
	Note					
	Double cli	ck on item to join/creat	e profile.			
)	-					
Show Tray Icon	<i>.</i>	🔲 Disable Ac	lapter		Clos	
Radio Off			Zero Confia		CIUSI	•





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Wireless Network Properties:	2
Profile Name: PHICOMM_02741C Network Name(SSID): PHICOMM_02741C	802.1x configure
— This is a computer-to-computer(ad hoc) network; wireless	THIS OTTOOD T
access points are not used.	
Channel: 6 (2437MHz)	Username :
Wireless network security	
This network requires a key for the following:	Identity :
Network Authentication: WPA2-PSK 🛛 🗸	
Data encryption: 🛛 🗲 👻	Domain :
	Password :
Key index (advanced):	Certificate :
Network key:	
*****	PAC : Auto Select PAC
Confirm network key:	

OK Cancel	

3) Wait a few minutes till the wireless network connection succeed, the following page will appear. Click **Close** to complete the configuration.

= 👮 MyComputer	General Profile Available Network Status Statistics Wi-Fi Protect Setup
PHICOMM Wirel	
	Status: Associated
	Speed: Tx:72 Mbps Rx:72 Mbps
	Type: Infrastructure
	Encryption: AES
	SSID: PHICOMM_02741C
	Signal Strength:
	100%
	Link Quality: 100%
	Network Address:
	MAC Address: 34:BD:F9:02:73:DF
	IP Address: 192.168.1.2
	Subnet Mask: 255,255,255,0
	Gateway:
	ReNew IP
	Reivew IP
>	
Show Tray Icon	Disable Adapter Close

- 4) The wireless icon in the taskbar will display as follow:
- Green bars show the quality of wireless signal, in means no signal while is means full signal.

Chapter 3: Configuration

The Phicomm Adapter Utility is used to configure the Adapter. The Utility lets you search for available wireless networks, establish or terminate a connection with a wireless network, and save a wireless network's settings.

There are two client utility applications in FWN-650N: Station mode and Access Point mode. **Note:** In this utility interface, Station Mode is the default access way. You can click **Mode** on the top menu to change the mode.

Station Mode

FWN-650N serves as a wireless device to receive wireless signals so as to access the Internet. Here is a sample network topology for your reference.





General

In the General tab, it displays general information of the being-used wireless network, including status, speed, authentication type, encryption type, SSID, signal strength and quality, network address.

🔋 PHICOMM Wireless L	AN 802.11n USB 2.0 Network Adapter Utility	
Refresh(R) Mode(M) Abou	it(A)	
🖃 🚽 MyComputer	General Profile Available Network Status Statistics Wi-Fi Protect Setup	
PHICOMIN WILER	Status: Associated	
	Speed: Tx:72 Mbps Rx:72 Mbps	
	Type: Infrastructure	
	Encryption: AES	
	SSID: PHICOMM_02741C	
	Signal Strength:	
	Link Quality:	
	- Network Address:	
	MAC Address: 34:BD:F9:02:73:DF	
	IP Address: 192.168.1.2	
	Subnet Mask: 255.255.25.0	
	Gateway:	
	ReNew IP	91
< >>		
🗹 Show Tray Icon	🔲 Disable Adapter	Close
🔲 Radio Off	🗌 Windows Zero Config	

Renew IP: Click to renew the general information of the being-used wireless network.

Show Tray Icon: Select this option, will display on the taskbar; otherwise, no icon will be shown.

Disable Adapter: Select this option, the adapter cannot be used anymore.

Radio Off: Select this option, no wireless signal can be received by the adapter.

Window Zero Config: Select this option, you can also configure wireless network connection by Windows XP built-in configuration utility.

Close: Click to close the adapter utility window.



Profile

Profile tab shows the profile of different networks that you have added or used. You could select any of them and operate as add, remove, edit, duplicate and set default.

PHICOMM Wireless LA	AN 802.11n USB 2.0 Network Adapter Utility
Refresh(R) Mode(M) Abou	t(A)
Refresh(R) Mode(M) Abou	t(A) General Profile Available Network Status Statistics WiFi Protect Setup Available Profile(s) Profile Name SSID Add PhiCOMM_02741C PHICOMM_02741C Remove Edit Duplicate
	Set Default
Show Tray Icon Radio Off	Disable Adapter Close Windows Zero Config

Available Network

The Available Network is used to scan available wireless networks around, providing the information such as network name (SSID), channel, encryption type, authentication, signal strength etc. of each network for your reference.

PHICOMM Wireless L	AN 802.11n USB 2.0 Network Adapter Utility							
Refresh(R) Mode(M) Abou	t(A)							
B WyComputer	General Profile Available Network Status Statistics Wi-Fi Protect Setup							
	Available Network(s)							
	SSID Channel Encryption Network Authentication	Signal 1						
	🖍 6 None Unknown	44% Ir						
	🔊 001 6 AES WPA Pre-Shared Key	76% Ir						
	PHICOMM_02741C 6 TKIP/AES WPA Pre-Shared Key/	100% Ir						
	🕅 🕅 6 TKIP/AES WPA2 Pre-Shared Key	100% Ir						
	🕈 10 6 TKIP/AES WPA2 Pre-Shared Key	44% Ir						
	🖍 11 None Unknown	74% Ir						
	🔊 11 None Unknown	58% Ir						
	🖍 [®] mtkemp 11 TKIP/AES WPA 802.1x/WPA2 80	26% Ir						
	🖍 ⁹ mtkguest 11 None Unknown	26% Ir						
	Refresh Add to Profile	<u>></u>						
	Note Double click on item to join/create profile.							
✓ Show Tray Icon ■ Radio Off	 Disable Adapter Windows Zero Config 	Close						



Refresh: Click to rescan available wireless networks around.

Add to Profile: Choose one of the networks that you would like to connect and click this button to continue.

Status

Status tab displays wireless network status including manufacturer, driver version etc.

PHICOMM Wireless L.	AN 802.11n USB 2.0 Network	Adapter Utility	
Refresh(R) Mode(M) Abou	t(A)		
E VyComputer	General Profile Available Network Manufacturer NDIS Driver Version Short Radio Header Encryption Authenticate Channel Set MAC Address Data Rate (AUTO) Channel (Frequency) Status SSID Network Type Power Save Mode Associated AP MAC Up Time (hh:mm:ss)	Status Statistics Wi-Fi Protect Setup PHICOMM 1010.0.917.2010 No AES WPA2-PSK 11 34:BD:F9:02:73:DF Tx:72 Mbps Tx:72 Mbps Rx:72 Mbps 6 (2437 MHz) Associated PHICOMM_02741C Infrastructure None 34:BD:F9:02:74:1C 0:11:30	
Show Tray Icon		able Adapter	
Show Tray Icon Radio Off		adie Adapter ndows Zero Config	Close

Statistics

Statistics summarize receiving (R) and transmitting (T) statistical information of the adapter.

MyComputer Ge	eneral F	Profile	Available Network	Status	Statistics	Wi-Fi Protect Setup		
		Co	unter Name			V	alue	
		Тх	ОК				127	
			Error				0	
		Rx					78	
			Packet Count				78	
			Retry ICV Error				1	
		INA						
		-						
		-						
		-						
		-		10				
				1	Reset			
>								

Reset: click to renew the statistics.



Wi-Fi Protected Setup

There are three ways to connect to a wireless network by WPS function:

Note: Wi-Fi Protected Setup is enabled only with WPS-compliant devices.

PHICOMM Wireless LAN	1 802.11n USB 2.0 Network Adapter Utility	
Refresh(R) Mode(M) About(A	A)	
PHICOMM Wirele	General Profile Available Network Status Statistics Wi-Fi Protect Setup	
	Wi-Fi Protected Setup (WPS)	
	An easy and secure setup solution for Wi-Fi network	
	Pin Input Config (PIN) After pushing the PIN button.Please enter the PIN code into your AP.	
	PIN Code: 13859084	
	Pin Input Config (PIN)	
	Push Button	
	After pushing the PBC button.Please push the physical button on your AP or visual button on the WPS config page.	
	Push Button Config (PBC)	
	External Registrar	
	There are two functions in External Registrar:Configure an AP to A security you want and add an new device into your netwrok.	
	External Registrar	
✓ Show Tray Icon ■ Radio Off	Disable Adapter Close Windows Zero Config	

PIN Input Config (PIN)

It is a method to connect to the network by inputting PIN (Personal Identification Number) code which was shown in the page into your router's utility page. Operation as below:

1) Click PIN Input Config (PIN) button, the following page will pop up, click No.



2) WPS will be initiated as window below.

/i-Fi Protected Setup - PIN	method		
ease enter the following PIN (code into you	r AP .	
PIN Code	: 138590)84	
Status : Initial WPS			



3) Access the web-based utility of the router (refer to the router's documentation for instructions), and input PIN Code (e.g. 92596061), click **Save**.

WPS mode settings	
WPS mode:	● PIN ○ PBC
Personal identification number (PIN)	
	Save

4) Wait two minutes, the adapter will connect to the router automatically. The WPS-PIN method configuration is complete.

Push Button Config (PBC)

It is a method to connect to the network by pressing WPS button on the wireless device. Operation as follow:

1) Click Push Button Config (PBC) button, WPS will be initiated as window below.

Wi-Fi Protected Setup - PBC method 🛛 🔀
Wi-Fi Protected Setup - PBC method
If there is more than one AP on the PBC mode, there will be [Session Overlap].Please use PIN method or wait for a while and use PBC method again.
Status : AP Sitesurvey
Complete :
Push Button Config (PBC) Cancel

- 2) Press the WPS button on the wireless device until the WPS LED lights up.
- 3) Wait two minutes, the adapter will connect to the wireless device automatically. The WPS-PBC method configuration is complete.

Note: If your router does not have this button, click Cancel and refer to PIN Input Config (PIN).

External Registrar

It is a method to connect to the network by inputting PIN (Personal Identification Number) code of your router into the adapter utility page. Operation as below:

- 1) Click External Registrar button.
- 2) Follow the instruction to complete the configuration.

Access Point Mode

The device can also serve as an access point to transmit wireless signals and to create a wireless network, allowing other wireless devices to connect to internet by accessing its network.



Click Mode – Access Point.

	1 802.11n USB 2.0 Netv	work Adapte	er Utility			
Refresh(R) Mode(M) About(A						
□	neral Profile Available N	etwork Status	s Statistics V	Vi-Fi Protect Setup		
Access Point	Available Network(s)					
ľ	SSID	Channel	Encryption	Network Authentication	Signal	1
	L ³⁾	6	None	Unknown	46%	Ir
	I)001	6	AES	WPA Pre-Shared Key	60%	Ir
	PHICOMM_02741C	6	TKIP/AES	WPA Pre-Shared Key/	100%	Ir
	1 ⁰⁾ 10	6	TKIP/AES	WPA2 Pre-Shared Key	100%	Ir
	k ⁹ 10	6	TKIP/AES	WPA2 Pre-Shared Key	26%	Ir
	I ³⁾	11	None	Unknown	74%	Ir
	I ³⁾	11	None	Unknown	60%	Ir
	1 ²⁰ mtkemp	11	TKIP/AES	WPA 802.1x/WPA2 80	26%	Ir
	<					>
	Refre	esh		Add to Profile		
<	Note Double click on item	to join/creat	e profile.			
Show Tray Icon	[Disable Ac			Close	3
🔲 Radio Off	[Windows	Zero Config			

The tray icon will turn from 🗾 to 🔽.

AP Mode Topology





General

Click **Config** to set its AP information such as network name (SSID), network key, channel, authentication type and encryption type. Click **OK** to save the settings.

PHICOMM Wireless L/	AN 802.11n USB 2.0 Network Adapter Utility	
Refresh(R) Mode(M) Abou	t(A)	
WyComputer PHICOMM Wirek	General Advanced Statistics ICS SSID: chanpinbu_AP BSSID: 34:BD:F9:02:73:DF Association Table AID MAC Address Life Time Config	
< > >		
Show Tray Icon Radio Off	Disable Adapter	Close

Advanced

In this page, you could do the advanced settings such as beacon interval, DTIM period and preamble mode.

🔁 PHICOMM Wireless L	AN 802.11n USB 2.0 Network Adapter Utility	
Refresh(R) Mode(M) Abou	ut(A)	
PHICOMM Wirele	General Advanced Statistics ICS	
	General	
	Beacon Interval	
	100	
	DTIM Period:	
	3	
	Preamble Mode	
		ŕ
	Set Defaults Apply	
< >		
🔽 Show Tray Icon	Disable Adapter	Close
🔲 Radio Off		



Set Defaults: Click to restore to the factory default setting.

Apply: Click to save your own setting.

Note: DO NOT change this unless you have special requirements.

Statistics

Statistics summarize receiving (R) and transmitting (T) statistical information of the adapter.

Refresh(R) Mode(M) Abou MyComputer MyComputer PHICOMM Wirele	(A) General Advanced Statistics ICS	
	Counter Name	Value
	Tx OK	243
	Tx Error	0
	Rx OK	112
	Rx Packet Count	112
	Rx Retry	5
	Rx ICV Error	0
	Rese	+
	(Lese	
🖌 Show Tray Icon	🔲 Disable Adapter	Close
Radio Off		

Reset: click to renew the statistics.

ICS (Internet Connection Sharing)

Choose one of the connections and click **Apply** to apply the connection.

🔋 PHICOMM Wireless LA	.N 802.11n USB 2.0 Network Adapter Utility
Refresh(R) Mode(M) About	(A)
PHICOMM Wirele	General Advanced Statistics ICS Setting Internet Connection Sharing (ICS)
	ConnName Device Name
	Local Area Connection Realtek PCIe FE Family Controller
	Public Network
	Local Area Connection Realtek PCIe FE Family Controller Apply
✓ Show Tray Icon ■ Radio Off	Disable Adapter Close



Chapter 4: Specification

Product		
Standards	IEEE 802.11n, IEEE 802.11g, IEEE 802.11b, CSMA/CA with ACK	
Interface	USB 2.0	
	11n: 150Mbps	
Data Rate	11g: 54Mbps	
	11b: 11Mbps	
Frequency Range	2.4-2.4835GHz	
Wireless Transmit Power	<20dBm	
Modulation Type DBPSK, DQPSK, CCK, OFDM, 16-QAM, 64-QAM		
Receive Sensitivity	150M: -68dBm@10% PER 108M: -68dBm@10% PER 54M: -68dBm@10% PER 11M: -85dBm@8% PER 6M: -88dBm@10% PER 1M: -90dBm@8% PER	
Wireless Security	64/128-bit WEP, WPA/WPA2, WPA-PSK/WPA2-PSK (TKIP/AES)	
System Requirements	Microsoft® Windows® 2000, XP, Vista and Windows 7	
Others		
Operating Temperature	0°C~40°C (32°F~104°F)	
Storage Temperature	-40°C~70°C (-40°F~158°F)	
Relative Humidity	10% ~ 90%, non-condensing	
Storage Humidity	5% ~ 95%, non-condensing	
Dimensions (W x D x H)	70mm x 24mm x 10mm	
Certifications	CE, FCC, RoHS	
Package Contents	1× Wireless N USB Adapter 1× Resource CD	
	1 x Quick Installation Guide	

*All references to speed and range are for comparison purposes only. Product specifications, size, and shape are subject to change without notice, and actual product appearance may differ from that depicted herein.



Appendix A: Troubleshooting

1. How do I know if my adapter is installed properly?

Right click on My Computer icon on your desktop screen, and then choose Manage.

	Open
~	Explore
	Search
	Manage
ily Makword - Planas	Map Network Drive
	Disconnect Network Drive
2	Create Shortcut
ianxala Bin	Delete
serciorenes rentra	Rename

Expand Network Adapters, you can see PHICOMM Wireless LAN802.11n USB 2.0 Network Adapter, right click on it, and choose Properties.





Look under **Device Status** to check that the device is working properly.

ieneral	Advanced	Driver	Details	Power Management
Chorar	Auvanceu	Diivei	Details	
H H	PHICOMM Adapter	Wireles	s LAN 802	2.11n USB 2.0 Network
	Device type	9.	Network	adapters
	Manufacturer:		Shanghai Feixun Communication Co.,Ltd	
	Location:		Location 0 (802.11n WLAN Adapter)	
Devic	e status			
	u are having p the troublesh		: with this	device, click Troubleshoot to
				Troubleshoot
Device	usage:			Troubleshoot

2. The computer does not recognize the wireless network Adapter.

Make sure that the Wireless Network Adapter is properly seated in the computer's USB port.

If Windows does not detect the hardware upon insertion of the adapter, make sure to completely remove drivers that were previously loaded.

- 3. Cannot connect to any access points.
- Verify that the wireless network adapter is in infrastructure mode.
- Verify that the SSID of your wireless network adapter is set to the same SSID of your access point.
- Verify that the encryption type is the same as that of an access point. If you enabled WEP encryption, you must also set the same WEP Keys on both sides.
- 4. The network is slow /having problem when transferring large files.
- Move closer to the place where access point is located.
- There could be too much people using the same radio channel. Ask the owner of the access point to change the channel number.



Appendix B: Certification

FCC Statement



This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution

- Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.
- This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
- For product available in the USA market, only channel 1~11 can be operated. Selection of other channels is not possible.
- This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.
- This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter.



CE Mark Warning

€€

Marking with the above symbol indicates compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

This is a class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

National restrictions

This device is intended for home and office use in all EU countries (and other countries following the EU directive 1999/5/EC) without any limitation except for the countries mentioned below:

Country	Restriction	Reason/remark
Bulgaria	None	General authorization required for outdoor use and public service
France	Outdoor use limited to 10 mW e.i.r.p. within the band 2454-2483.5 MHz	Military Radiolocation use. Refarming of the 2.4 GHz band has been ongoing in recent years to allow current relaxed regulation. Full implementation planned 2012
Italy	None	If used outside of own premises, general authorization is required
Luxembourg	None	General authorization required for network and service supply(not for spectrum)
Norway	Implemented	This subsection does not apply for the geographical area within a radius of 20 km from the centre of Ny-Ålesund
Russian Federation	None	Only for indoor applications

Note: Please don't use the product outdoors in France.

Appendix C: Glossary

WLAN: Wireless Local Area Network.

802.11: A family of specifications developed by the IEEE for WLAN technology.

802.11a: An extension to 802.11 WLAN standard that provides up to 54 Mbps transmission in the 5 GHz UNI radio band.

802.11b: An extension to 802.11 WLAN standard that provides up to 11 Mbps transmission in the 2.4 GHz ISM radio band. 802.11b uses DSSS modulation.

802.11g: An extension to 802.11 WLAN standard that provides up to 54 Mbps transmission in the 2.4 GHz ISM radio band. 802.11b uses OFDM modulation and is backwards compatible with 802.11b.

802.11n: 802.11n builds upon previous 802.11 standards by adding MIMO (multiple-input multiple-output). MIMO uses multiple transmitter and receiver antennas to allow for increased data throughput via spatial multiplexing and increased range by exploiting the spatial diversity, perhaps through coding schemes like Alamouti coding. The Enhanced Wireless Consortium (EWC) was formed to help accelerate the IEEE 802.11n development process and promote a technology specification for interoperability of next-generation wireless local area networking (WLAN) products.

Ad-Hoc: A group of computers each with wireless adapters, connected as an independent WLAN.

AES: Advanced Encryption Standard.

SSID: Service Set Identifier. A 32-character unique identifier attached to the header of packets sent over a WLAN that acts as a password when a mobile device tries to connect to the BSS.

TCP/IP: Transmission Control Protocol/Internet Protocol.

TKIP: Temporal Key Integrity Protocol.

WEP: Wired Equivalent Privacy. A security protocol for WLANs defined in the IEEE 802.11 standard.

WPA: Wi-Fi Protected Access.

WPA2: Wi-Fi Protected Access 2. The next generation of Wi-Fi security, based on the 802.11i standard.

WPA2-PSK: Wi-Fi Protected Access 2-Pre-shared Keys.

WPA-PSK: Wi-Fi Protected Access-Pre-shared Keys.

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