

FIR151B/300B/302B/303B

Wireless Router

User Manual





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IMPORTANT HEALTH INFORMATION AND SAFETY PRECAUTIONS

When using this product, the safety precautions below must be taken to avoid possible legal liabilities and damages. Retain and follow all product safety and operating instructions. Observe all warnings in the operating instructions on the product. To reduce the risk of bodily injury, electric shock, fire and damage to the equipment, observes the following precautions.

SAFETY PRECAUTIONS FOR PROPER INSTALLATION

CAUTION: Connecting to a weaker inappropriate charger can result in an electric shock to your device.

SAFETY PRECAUTIONS FOR PROPER SUPPLY UNIT

Use the correct power source!

This product can only be charged with matching standard external power source appointed by Shanghai Feixun Communication Co., Ltd.

Shanghai Feixun Communication Co., Ltd. is not liable for any device breakdown or safety accident arising from the use of unauthorized external power source.

PRECAUTION OF HEARING LOSS

GENERAL WARNING: To prevent possible hearing damage, do not listen at high volume levels for long periods.



Permanent hearing loss may occur if the receiver, headphones, speakerphone or earpieces are used at high volume. Use only compatible receivers, headphones, speakerphones or earpieces with your device. Turn on the audio and check the volume before inserting anything in your ear. You can adapt over time to a higher volume of sound that may sound normal but can be damaging to your hearing. If you experience ringing in your ears or muffled speech, stop listening and check your hearing. The louder the volume, the less time is required before your hearing could be affected.

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Hearing experts suggest that to protect your hearing:

- Limit the amount of time you use receiver, headphones, speakerphone or earpieces at high volume.
- Avoid turning up the volume to block out noisy surroundings.
- Turn the volume down if you cannot hear people speaking near you.

SAFETY PRECAUTION FOR DIRECT SUNLIGHT

Keep this product away from excessive moisture and extreme temperatures. The device is designed to be operated in temperatures between 0°C and 40°C. Low- or high-temperature conditions might cause the device to temporarily stop working properly. Do not leave the product in a vehicle or in places where the temperature may exceed 70°C (window sill or behind glass). Avoid dramatic changes in temperature or humidity when using the device as condensation may form on or within the device.

When you are using the device, it is normal for the device to get warm. The exterior of the device functions as a cooling surface that transfers heat from inside the unit to the cooler air outside.

ENVIRONMENT RESTRICTIONS

Do not use this product in gas stations, fuel depots, chemical plants or where blasting operations are in process, or in potentially explosive atmospheres such as below deck on boats, fuel or chemical transfer or storage facilities, and areas where the air contains chemicals or particles, such as grain, dust or metal powders. Please be aware that sparks in such areas could cause an explosion or fire resulting in bodily injury or even death.

EXPLOSIVE ATMOSPHERES

In any area with a potentially explosive atmosphere or where flammable materials exist, the product should be turned off and the user should obey all signs and instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death. Users are advised not to use the equipment at refueling areas such as service or gas stations, and are reminded of the need to observe restrictions on the use or radio equipment in fuel depots, chemical plants or where blasting operations are in progress. Areas with a potentially explosive atmosphere are often, but not always, clearly marked. These include fueling areas, below deck on boats, fuel or chemical transfer or storage facilities, and areas where the air contains chemicals or particles, such as dust or metal powders.



SAFETY PRECAUTIONS FOR RADIO FREQUENCY EXPOSURE

- Avoid using your device near metal structures (e. g. the steel frame of a building).
- Avoid using the device near strong electromagnetic sources, such as microwave ovens, sound speakers, TV and radio.
- Use only original manufacturer-approved accessories.
- Use of non-original manufacturer-approved accessories may violate your local RF exposure guidelines and should be avoided.

INTERFERENCES WITH MEDICAL EQUIPMENT FUNCTIONS

This product may cause medical equipment to malfunction. The use of this device is forbidden in most hospitals and medical clinics.

If you use any other personal medical device, consult the manufacturer of your device to determine if they are adequately shielded from external RF energy.

HEARING AID DEVICES

Some devices may interfere with some hearing aid devices. In the event of such interference, you may want to consult your service provider, or call customer service line to discuss alternatives.

NON-IONIZING RADIATION

Your device has external antennas. This product should be operated in its normal-use position to ensure the radiative performance and safety of the interference. Users are advised that for satisfactory operation of the equipment and for the safety of personnel, it is recommended that no part of the human body be allowed to come too close to the antenna during operation of the equipment.

Use only the supplied antennas. Use of unauthorized or modified antennas may impair transfer quality and damage the device, causing loss of performance and SAR levels exceeding the recommended limits as well as result in noncompliance with local regulatory requirements in your country.

To assure optimal device performance and ensure human exposure to RF energy is within the guidelines set forth in the relevant standards, always use your device only its normal-use position. Contact with the antennas may impair quality and cause your device to operate at a higher power level than needed. Avoiding contact with the antenna area when the device is in use optimizes the antenna performance.



GENERAL PRECAUTIONS

AVOID APPLYING EXCESSIVE PRESSURE TO THE DEVICE

Do not apply excessive pressure on the device to prevent damaging them.

DEVICE IS GETTING WARM AFTER PROLONGED USE

When using your device for prolonged periods the device may become warm. In most cases this condition is normal and therefore should not be interpreted as a problem with the device.

HEED SERVICE MARKING

Except as explained in the user manual, do not repair any product yourself. Service needed on components inside the device should be done by an authorized service outlet or provider.

PHICOMM is entitled to use new or reconditioned replacements parts or boards for repairs under warranty, provided they have the same functionality as the parts to be replaced.

DAMAGE REQUIRING SERVICE

Unplug the device from the electrical outlet and refer servicing to an authorized service center or provider under the following conditions:

- Liquid has been spilled or an object has fallen onto the product.
- The product has to been exposed to rain or water.
- There are noticeable signs of overheating.
- The product does not operate normally when you follow the operating instructions.

AVOID HOT AREAS

The product should be placed away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that products heat.

AVOID HOT AREAS

Never use the product in a wet location.

AVOID USING YOUR DEVICE AFTER A DRAMATIC CHANGE IN TEMPERATURE

When you move your device between environments with very different temperature and/or humidity ranges, condensation may form on or within the device. To avoid damaging the device, allow sufficient time for the moisture to evaporate before using the device.



NOTICE: When taking the device from low-temperature conditions into a warmer environment or from high-temperature conditions into a cooler environment, allow the device to acclimate to room temperature before turning on power.

AVOID PUSHING OBJECTS INTO THE DEVICE

Never push objects of any kind into cabinet slots or other openings in the product. Slots and openings are provided for ventilation. These openings must not be blocked or covered.

MOUNTING ACCESSORIES

Do not use the product on an unstable table, cart, tripod or bracket. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

AVOID UNSTABLE MOUNTING

Do not place the product with an unstable base.

USE PRODUCT WITH APPROVED EQUIPMENT

This product should be used only with personal computers and options identified as suitable for use with your equipment.

CLEANING

Unplug the product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning, but NEVER use water to clean the device.

The device has been provided with special treatments featuring that it could dispose dirt and sweat on its surface. The device itself does not have a stain-resistant function. In case of smudginess and dyeing, please wipe it with clean damp sponge immediately. Please keep the device dry when necessary.

PACEMAKER



The device may cause disturbance to pacemakers. Please keep the device a proper distance of least 5 centimeters away from pacemakers.

If you need detailed information about other active implantable medical devices, please consult your doctor to ensure the magnetic interference of such active implantable medical devices.

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CAUTION

Update your operating system with caution.

- Improper operation or unforeseen external factors may cause an operating system update fails; the device will not work properly. If such a situation occurs, you need to send the unit in for repair.
- An unofficial operating system can cause security risks. Please install only official updates provided by Phicomm, if not you will void the warranty and a repair is chargeable.

SW-Update

• During the update process all user data will be erased. Please backup your data before.

Package contents

Please check the package content before the installation of the router: 1x Wireless Router 1x power supply unit 1x RJ45 cable 1x quick start guide GPL license and CE declaration



Summary of changes

Issue	Issue date	Remarks
1	September 2014	Initial release



1. About the user manual

This user manual includes a complete overview of the configuration and functions of PHICOMM routers of the FIR series.

1.1 Structure of the user manual

The document is structured as follows:

Chapter	Title	Subject
1		Basic description of document content,
	About the user manual	definition of symbols and conventions
2	Introduction	Description of basic functions
3		Description of the way connecting the
	Hardware connections	router with other hardware
4	Wireless router configurations	Description of the router configuration
5	Troubleshooting	FAQs and solutions
6	Technical support – contact us	

1.2 Used symbols and fonts

The following symbols are used in the user manual:



DANGER! WARNING!

May result in personal injury



Note

Useful additional information



The following editorial conventions are used in the manual:

Convention	Explanation
Bold	Field names / button names are written in bold Example: click menu View
Italic	Commands, screen output, file names and paths are written in <i>Italic</i> . Example: Input <i>192.168.0.1</i> in IP address text box.
<>	<> keyboard or actual names are represented in angle brackets Example: Click <ctrl> + <alt> + <delete> to open the task manager.</delete></alt></ctrl>
>	Used for menu sequence Example: Click File > Print to print.



1.3 standard compliances (CE, FCC)

Declaration of Conformity

For CE marking in the EU (European Union) Shanghai Feixun Communication Co., Ltd. No.3666, Sixian Rd., Songjiang District, Shanghai, P.R.China

We declare under our sole responsibility that our products

Product Name: Wireless Router

Model: FIR151B, FIR300B, FIR302B, FIR303B

to which this declaration relates are in conformity with the following normative

European and international standards:

Safety

- ✓ EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013
- ✓ EN 62311:2008
 EMC
- ✓ EN 301 489-1 V1.9.2(2011-09)
- ✓ EN 301 489-17 V2.2.1(2012-09)
- ✓ EN 55022:2010
- ✓ EN 61000-3-2:2006+A1:2009+A2:2009
- ✓ EN 61000-3-3:2008
- ✓ EN 55024:2010
 - Radio Spectrum
- ✓ EN 300 328 V1.7.1(2006-10)

By conformance with the standards referenced our products follow the provisions of the directives listed below.

- ✓ R&TTE Directive 1999/5/EC
- ✓ EMC Directive 2004/108/EC
- ✓ Low Voltage Directive 2006/95/EC

Date: July 8, 2014 Jie Hu Manager for Product Certification



FCC STATEMENT

This device has been tested and complies with Part 15 of the FCC Rules for Class B. These regulations are intended to protect against adverse effects of device operation in a home environment.

The operation of a device under FCC regulations Part 15 is subject to the following two conditions:

- The device may not cause harmful interference.
- This device must accept any interference, including all those that cause undesirable behavior.

This router generates and uses radio signals and therefore may interfere with radio communications if not installed. However, there can be no guarantee that interference will not occur. If a communication fault can occur, which can be tested by simply switching off and on the device, you should perform the following actions:

- Realign antennas
- Increase distance of the router to radio or television
- Use router with a different circuit than the radio or TV operate
- Contact dealer or manufacturer

Any use not expressly approved by PHICOMM changes to the device will invalidate the guarantee.

This equipment complies with the FCC RF radiation exposure limits set forth for an uncontrolled environment. This router and its antenna / antennas must not be operated in the immediate vicinity of other radio wave emitting devices / antennas. The antennas used for this router must be at least 20 cm away from people.



2. Introduction

The routers of the FIR series are all-in-one router for home and SOHO users to share broadband internet connection over a wired or a wireless network.

The speed of up to 300 Mbps (FIR151B up to 150 Mbps) provides users with extraordinary smooth internet surfing, internet phone calling and online gaming. By adopting external Omni-directional antenna(s), the product greatly increases the wireless range and sensitivity, which enables to receive wireless signals in any corner of your home or your office.

The routers of the FIR series support the following features:

- speed up to 300 Mbps (FIR151B up to 150Mbps)
- backward compatible with 802.11b/g products
- health and power saving allows parents or administrators to establish restricted access policies for children or staff
- WPS button allows easy ON/OFF of the internet connection
- bandwidth control allows administrators to control the bandwidth for each PC



3. Hardware connections

To establish a connection using a modem, please follow the steps 1-1 to 4 of the chart below. If you use an Ethernet cable, please connect RJ with the WAN port directly (steps 1-2 to 4)





Note

The connections might vary by models.



4. Wireless router configurations

This section gives instructions of the procedures that must be performed to enable the wireless router.

After completion of the third point the router is connected with the internet. Please select the corresponding internet connection on your PC and click **connect**.

4.1 TCP/IP settings

The IP address has to be obtained automatically before starting the configuration of the router. Please follow these steps:

 With the right mouse button please click on the right bottom corner. Click Open Network and Sharing Center and select Change adapter settings on the upper left of the screen.



2. Select network connection type and open the **Properties**. In the **Properties** window please double click **Internet Protocol Version 4 (TCP/IPv4)**.





3. Select both **Obtain an IP address automatically** and **Obtain DNS server address automatically**. Click **OK** to confirm the configuration.

Alternate Configuration You can get IP settings assigned autor supports this capability. Otherwise, yo dministrator for the appropriate IP se	matically if ou need to	your ask yo	network our netw	: vork
Obtain an IP address automatica	llv			
Use the following IP address:	.,			
IP address:				
Subnet mask:				
Default gateway:				
Obtain DNS server address autor Use the following DNS server ad Preferred DNS server: Alternate DNS server:	matically dresses			
Validate settings upon exit			Adv	anced



4.2 Router configurations

Open the web browser and enter 192.168.2.1 in the address bar.

🥖 FIR302B - Win	dows Internet Explorer				
<u> </u>	192.168.2.1	-	>	×][
🚖 Favorites				•	E

Enter **Username** and **Password** (preset as *admin/admin*). You can find this information also at the bottom of the label on your router. Select the languages on the right side. Then click the **Login** button.

PHICOMM		Service Tel Product Model Language	400-720-5677 FIR302B English	✓
User Nam Password	e admin ••••• (Default Remember My Password	: admin)		
	Login Cancel			

After successful login, you will see the page of the Setup Wizard. Enter the needed settings or click **Cancel** to leave this page (to see the web management page). You can find the **Setup Wizard** in menu on the left. A small **HELP** button is on the right side to provide comprehensive instructions.

To confirm the settings on all pages please click **Save**. By clicking **Cancel** you always will return to the former page.



4.2.1 Setup Wizard

The setup wizard simplifies installation and configuration steps.

PHICOM	Language	English 🔻 Ser	vice Tel: 86-400-720-5677	sic Advanc
FIR302B				
Setup Wizard	Setup Wizard			
Setup Wizard	Noterif you have an ISP username and	naceword plaase select "	PPAE"	
+ Network Settings	Note.ii you have an ior usemanie and	password,please select r	PPOE.	
Wireless Settings	Note:we can only configure wired acce	ss via Quick Wizard.		
+ Health And Power Saving	Notwork Cottings			
+ Running Status	Network Settings			
+ Sy¦stem Tools	WAN Protocol:	PPPoE Auton	natically Obtain (Dynamic IP) 🔘 Static IP	
+ Logout	Wireless Security			
	Wireless Network Name(SSID):	PHICOMM_CB3545		
	Wireless Password:		(Enter a password more than 8 chars)	

Menu item	Explanation
Network Settings	
WAN protocol	РРРоЕ
	PPPoE is typically used for DSL services. Select PPPoE
	and type in the Username and Password provided by
	your internet service provider. Then click the Save
	button.
	Dynamic IP (automatically obtain)
	Select Automatically obtain (Dynamic IP) if internet
	service provider does not provide any IP to use. This
	option is commonly used for cable modem services.
	Router will obtain IP address information automatically.
	Click Save button.
	Static IP address
	Select Static IP if internet service provider provides the
	static IP address, subnet mask, default gateway and DNS
	server address. Type in those information and click the
	Save button.
Wireless Security	
Wireless network name	Define SSID to any other name you prefer or keep it
(SSID)	unchanged.



Menu item	Explanation
Wireless password	Set a wireless password (more than 8 characters) to
	prevent others from accessing your network without
	permission.



Note

The SSID should be changed and no longer match with the name specified by the manufacturer. Please create an anonymous one as possible SSID, which does not allow any conclusions about the location of the router.

4.2.2 Network Settings

Operating mode

PHICOM	1M	anguage: English 💽 Service Tel: 88-400-720-5677 Basic Advanced
FIR302B		5
+ Setup Wizard	Operating Mode	
Network Settings	Please select appropriate wor	orking mode for the router according to your needs.
Operating Mode	Operating Mode	
WAN Settings	Poutor	Access to internet by mediam
LAN Settings	(Notier	Access to internet by modern.
MAC Clone	⊚ AP	when working in this mode, the device is working like a switch which supports wireless. After the computer is connected to the device via a wired or wireless, from the too of the device dynamically assigned addresses
+ Wireless Settings		nom bie top of the verve dynamically assigned addresses.
+ Health And Power Saving	Note: In order to visit the sett Router mode settings need	tting page, you have to set a static IP previously and disconnect the WAN connection. I to reboot the device to take effect!
+ Running Status		
+ System Tools		
+ Longut		Save Cancel

Select Router or AP button for operation mode.

Menu item	Explanation
Router	This is the default and the most commonly used wireless operating mode. The router connects wired or wireless with the network / internet.
АР	The router acts as a central connection point, which wireless clients can connect to.



WAN settings

PHICON		e: English 💽 Service Tel: 86-400-720-5677 Basic Advanced			
FIR302B					
+ Setup Wizard	WAN Settings				
Network Settings	In this page, you can set the basic	network parameters of the WAN interface.			
Operating Mode	Note: The router gateway and associated equipment should not be in the same network segment. When wireless state is closed				
WAN Settings	have access to wireless!				
LAN Settings	Access Mode Of WAN				
MAC Clone	Access Mode:	WAN in wired OWAN in wireless			
 Wireless Settings 					
 Health And Power Saving 	WAN Protocol				
+ Running Status	WAN Protocol: Dynamic IP(DHCP)				
+ System Tools	Note: If the WAN port network sea	ment is 192 168 2 X go to "LAN Settings" to modify LAN IP port to other network			
+ Logout	segments (Eg: 192.168.1.1), to avo	id the conflict.			
	Dynamic IP (DHCP)				
	IP Address:	0.0.0.0			
	Subnet Mask:	0.0.0.0			
	Default Gateway:	0.0.0.0			
	MTU Size (byte):	1500 (Default: 1500. Don't modify it unless it is necessary.)			
	Manually configure the DNS	Server			
	Primary DNS Server:				
	Secondary DNS Server:	(Optional)			
	1				
		Save Cancel			

Select Access Mode Of WAN and WAN Protocol on WAN Settings page. If your internet service provider is running on a DHCP server, select **Dynamic IP** as connection type. The router will automatically get IP parameters from your internet service provider.



Note

If the WAN port network segment is 192.168.2.X, go to LAN Settings page to modify LAN IP port to other network segments (for example 192.168.2.1) to avoid conflicts.



LAN Settings

PHICON	1M	Language: E	nglish 💌 Se			Basic	Advanced
FIR302B							Ģ
Setup Wizard	LAN Settings						ELP
Network Settings	In this page, you can set	the LAN network	parameters.				-
Operating Mode	LAN Settings						
I AN O-Ware	IP Address:		192.168.2.1				
LAN Settings	Subnet Mask:		255.255.255.0	-			
MAC Clone				Long L			
Wireless Settings							
 Health And Power Saving 			Savo		ancol		
+ Running Status			Save		ancer		
+ System Tools							
+ Logout							

Menu item	Explanation
IP address	Enter LAN IP address of the router.
Subnet Mask	Enter the subnet mask associated with the LAN IP address.



Note

If you change the LAN IP address of the router, log in the web management page with the new IP address.

MAC Clone

PHICOM	Language: En	glish Service Tel: 88-400-720-5677 Basic A	dvanced
FIR302B	MAQ 01		E
+ Setup Wizard	MAC CIONE		E .
Network Settings	On this page, you can set MAC address clor	10.	-
Operating Mode	MAC Clone		
WAN Settings	MAC Clana Status:		
LAN Settings	MAC Clone Status.		
MAC Clone	Note: This function applies to computers in	n the LAN only.	
+ Wireless Settings			
+ Health And Power Saving		Save Cancel	
+ Running Status			
+ System Tools			
+ Logout			

Some internet service providers require the registration of your computer's MAC address. If you want to clone the MAC address select **Enabled**.



4.2.3 Wireless Settings

There are two submenus under the Wireless Settings menu:

- Wireless Basic Settings
- Wireless MAC Filtering

Click any of them to configure the corresponding function.

Wireless Basic Settings

PHICOM	Language: En	glish 💽 Service Tel: 86-400-720-5677 🛛 🛛 Basic 🛛 Adv	vanced
FIR302B			F
	Wireless Basic Settings		E P
+ Network Settings	In this page, you can set parameters related	d to wireless.	_
Wireless Settings	Wireless Basic Settings		
Wireless Basic Settings	Wireless Status:	Enabled Obsabled	
Wireless MAC Filtering	SSID Selection:	SSID 0 PHICOMM CB3545 (Enabled)	
+ Health And Power Saving	SSID Status		
+ Running Status			
+ System Tools	SSID:	PHICOMM_CB3545	
+ Logout	Region:	China	
	Channel:	Auto Current: 6	
	Wireless Mode:	11b/g/n Mode	
	The Bandwidth Of Frequency (Band):	20/40MHz 💌	
	SSB Control Channel (40 MHz) :	lower(band) -	
	AP Isolation:	Enabled Disabled	
	SSID Broadcast:	Enabled Obisabled	
	Wireless Security Settings		
	Security Options:	Disabled	
		Save Cancel	

Menu item	Explanation
Wireless Basic Settings	
Wireless Status	Select Enabled or Disabled to control the wireless
	function of the router.
SSID	Name of the wireless network
Wireless Mode	If all wireless devices connected with the wireless router
	are in the same transmission mode (for example
	802.22b), select 11b Mode .
	If the devices use different transmission modes, select
	11b/g/n Mode.
SSID Broadcast	If you choose Enabled , the wireless router will
	broadcast the SSID name.



Menu item	Explanation			
Wireless Security Setting	S			
Security Options	Disabled			
	WEP: Wired Equivalent Privacy			
	WPA-PSK: Pre-Shared Key of WPA			
	WPA2-PSK: Pre-Shared Key of WPA2			
	WPA/WPA2-PSK: automatically based on the wireless			
	stations' capacity and request			

Note



The security modes are different in the kind of encryption.

WEP encryption provides the least protection while WPA2-PSK is to overcome the most difficult and therefore offers the best protection.

Wireless MAC Filtering

	1M	
- HICON	Language: Eng	glish Service Tel: 86-400-720-5677 Basic
FIR302B		
+ Setup Wizard	Wireless MAC Filtering	
+ Network Settings	On this page, you can set MAC address filte	er rules to access to the wireless network.
Wireless Settings	Note:Please enable wireless and the corres	sponding SSID on the page of "Wiressless Basic Settings".
Wireless Basic Settings		
Wireless MAC Filtering	Wireless MAC Filtering(Supports up to	16)
+ Health And Power Saving	SSID Selection:	SSID_0 PHICOMM_CB3545 (Enabled)
+ Running Status	Wireless MAC Filtering:	Enabled Obisabled
+ System Tools	Filter Options	
+ Logout	Blocked	Deny access for the listed MAC addresses
	 Allowed 	Allow access for the listed MAC addresses
	Wireless MAC Filters	
	Add MAC Address:	Wireless Clients List
		Add / Save
	Wireless MAC Filter List	
	Ne	MAC Address

Enter the MAC address. Set to block or allow the PC(s) to connect with the wireless router. To set MAC addresses proceed as follows:

- 1. Select Enabled under Wireless MAC Filtering.
- 2. Select Blocked or Allowed under Filter Options.
- 3. Fill 00:0A:EB:00:07:5F in Add MAC Address.
- 4. Click Add/Save button.



4.2.4 Health and Power Saving

PHICON	им	
BHICO	Languages: E	nglish Service Tel: 86-400-720-5677 Basic Advance
FIR3028	Health And Power Saving	
Network Settings	On the page, you can set the function of h	selfh and power saving.
- Wreless Settings		
Health And Power Saving	- Netexistro-bears was, you must eyes	monce the system-two-and-ace time Oe Fordet
Health And Power Saving	Hardware Switch Settings	
- Running Status	Hardware Switch Settings:	WPS/Reset(Default) (Wireless/Reset
- System Tools		
- Logout	Wireless Timing Settings	
	Time Switch:	Enabled Oisabled
	Power Adjust	75% .
	Day:	Everyday Monday I Tuesday Wednesday Thursday Friday Saturday I Sunday
	Time:	O 24 Hour @ Time Period H : M - H : M
	NotesDon't set different time periods for t property!	he same behavior, otherwise health and power saving features may not work AddSave Cancel
	Current Saving Rules(Supports up to	5)

Set to turn on/off the wireless router according to your actual needs (for example rest times or limit surfing time for children). You can also turn off the power of the wireless router to save power and protect the environment at the same time.



Note

In order the router is working properly, the router time must be synchronized with the internet time.

If the router time is different from the internet time, proceed as follows to synchronize: Click **Set at once** > **synchronize with PC**

Now you can configure the time settings:

- 1. Select WIFI/Reset Combination under Hardware Switch Settings.
- 2. Select Enabled (default) under Time Switch and adjust the RF power in Power Adjust according to your demand.



Note

It will impact the performance and the coverage of the wireless.

3. Set time in Time Settings (day, week) and Time Settings (hour) separately.



4.2.5 Running status

Device Information

	M	Language	English	▼ 5	Service Tel: 86-400-7	20-5677	Basic	Advanced
FIR302B								
+ Setup Wizard	Device Information	n						
+ Network Settings	This page displays W	AN, LAN, Wire	eless Networks'	parameter	s and information abou	it routers.		
+ Wireless Settings	Note: If the WAN add	ress and the L/	AN address are	in the sam	ne network segment, pl	ease modify the L/	AN IP address.	
+ Health And Power Saving								
Running Status	WAN Status				Wireless Status			
Device Information	WAN Protocol:	DHCP			Wireless Status:	Enabled		
DHCP Clients	10.444				0010	DU100101 000	- 15	
Wireless Clients	IP Address:	0.0.0.0			SSID:	PHICOMM_CB3	1040	
Traffic Statistics	Subnet Mask:	0.0.0.0			Wireless Mode:	11b/g/n Mode		
+ System Tools	Default Gateway	0000			Channel	1		
+ Logout								
	DNS Server:	0.0.0;0.0;0	0.0		Security Method:	Disabled		
	MAC Address:	D8:42:AC:C	B:35:44		MAC Address:	D8:42:AC:CB:35	5:45	
	R	enew	Release					
	LAN Status				System Information	n		
	IP Address:	192.168.2.1			Hardware Version:	V2.0		
	Subnet Mask:	255.255.255	5.0		Software Version:	V3.0.1.8		
	MAC Address:	D8:42:AC:C	B:35:44		Running Time:	0 day, 3 h, 25 m	in, 43 sec	
			[Refr	esh			

This page displays WAN, LAN, Wireless network's parameters and information about the router.

There are IP addresses, subnet masks, default gateways, SSID, hardware- and software-versions etc.

Press Refresh button to refresh the Device Information list.



DHCP Clients

PHILUM	M	Language:	English 💌	Service Tel: 86-400-720-5	677 Basic	Advanced
FIR302B	DHCP Clients					
Network Settings	In this page, you can view	all DHCP clien	ts information.			
Wireless Settings Health And Power Saving	DHCP Server					
 Running Status 	DHCP Server:		Enabled			
Device Information	End IP Address:		192.168.2.100			
DHCP Clients Wireless Clients	DHCP Clients List					
Traffic Statistics	Host Name	Interface	IP Address	MAC Address	Time To Live	
+ System Tools + Logout	FANGYANZHANG	br0	192.168.2.100	B8:88:E3:F2:71:E9	0 day, 23 h, 16 min, 14 sec	
			Re	efresh		

Menu item	Explanation
DHCP Clients	
DHCP-Server	DHCP server configures the TCP/IP protocol for each PC in the LAN automatically.
Start IP address	1st address in the IP address pool
End IP address	Last address in the IP address pool
DHCP Clients List	
Refresh	Click the button to refresh the DHCP clients list

Wireless Clients

PHILUM	M		Language: E	nglish 💌			Basic Ac	dvanced	
FIR302B								G	
+ Setup Wizard	Wireless C	Clients						E.	
+ Network Settings	In this page,	you can see F	Router Wireless	Clients information	n.				
+ Wireless Settings									
+ Health And Power Saving	SSID Sele	ction:		SSID_0 PHI	SSID_0 PHICOMM_CB3545 (Enabled)				
Running Status	Wireless	Clients List							
Device Information	Number	MAC	Connect	The number	of receiving	The number of sending	Connect Rate		
DHCP Clients		Address	Time	pack	ets	packets	(Mbps)		
Wireless Clients									
Traffic Statistics					Refresh	1			
+ System Tools						I			
+ Logout									

Click **Refresh** button to check the wireless clients.



Traffic Statistics

PHILUM	Ň	Lai	nguage:	English	•	Servic	e Tel:	86-400	-720-5677		Ba	sic	Adv	an
FIR302B														
+ Setup Wizard	Traffic Statistics													
+ Network Settings	In this page, you ca	in check the	e traffic st	atistics res	ults.									
+ Wireless Settings	Traffic Statistics													
+ Health And Power Saving	Traine Stausues													
Running Status	Current Traffic Statistics:			© En										
Device Information	Packet Interval: 20 v sec													
DHCP Clients	Traffic Statistics	Lists												
Wireless Clients		Total	Traffic		Current Traffic(Tx)			Current Traffic(Rx)						
Traffic Statistics	IP Address	Packets	Bytes	Packets	Bytes	ICMP	UDP	SYN	Packets	Bytes	ICMP	UDP	SYN	
+ System Tools														
+ Logout														
				Save			С	ancel						

Check the traffic statistic results and the packet intervals.



4.2.6 System Tools

Check out different administration tools: System Management, Time Management, WEB Management, Modify Login Password, System Diagnostics and System Log.

System Management

FIR302B	
+ Setup Wizard	System Management
+ Network Settings	On the page you can restore factory default values, restart the router, upgrade software, manage the configuration and so on.
Wireless Settings	Factory Reset
+ Health And Power Saving	Eactory Pasat
+ Running Status	racioly reset
System Tools	
System Management	System Restart
Time Management	System Restart System Restart
WEB Management	
Modify Login Password	Software Upgrade
System Diagnostics	Select The Upgrade File: Upgrade ile: 浏览
System Log	
+ Logout	Configuration File Management
	Configuration Backup: Backup
	Select Restore Files: Upload 浏览

Menu item	Explanation
Factory Reset	Restore factory default values
System Restart	Restart the router
Software Upgrade	Update software
Configuration File	Backup and restore the configuration
Management	



Note

All user settings will be deleted when factory reset is enabled.



Time Management

FIR302B				
+ Setup Wizard	Time Management			
+ Network Settings	On this page, you can set the netwo	On this page, you can set the network time of the system.		
+ Wireless Settings	Natural Time			
+ Health And Power Saving	Network Time			
+ Running Status	Current Time:	Sat, 01 Jan 2000 00:49:06 Sync With PC		
System Tools	Time Zone:	(GMT) Greenwich Mean Time		
System Management		time.nist.gov		
Time Management	Network Time Server:	ex: time.nist.gov ntp0.broad.mit.edu		
WEB Management		time.statime.gov.tw		
Modify Login Password	Note:Only after connecting to internet,you can get GMT time.			
System Diagnostics				
System Log		Save Cancel		
+ Logout				

Set the network time of your system or click **Sync with PC** to synchronize with the computer.



Note

You can get GMT time after connecting with the internet.

Web Management

FIR302B		
+ Setup Wizard	Web Management	
+ Network Settings	This page can restrict LAN access and allow	v you to manage the WEB management page of the router remotely.
+ Wireless Settings	LAN Web Management	
+ Health And Power Saving	Allow all hosts in the LAN to access the	a management hage
+ Running Status	Allow only MAC address in the list to access integration	coses the web management page
System Tools	Allow only MAC address in the list to a	ccess the web management page.
System Management	MAC Address 1:	
Time Management	MAC Address 2:	
WEB Management	MAC Address 3:	
Modify Login Password	MAC Address 4:	
System Diagnostics		
System Log	Remote Web Management	
+ Logout	Enable Remote Administration:	Enabled Obisabled
	Web Management Port:	8080 (Default:8080)
	The Allowed IP Address:	255.255.255
	Note:If Web management port conflicts wi management, the virtual server and DMZ of	th the ports of virtual server and DMZ entry, when you start the remote entry with the port conflict will not work.

Menu item	Explanation
LAN Web Management	Restricts LAN access and only allows MAC addresses in
	the list to access the Web Management page
Remote Web Management	Allows the remote management of the router

Note

If the web management port conflicts with the ports of virtual server and DMZ entry, when you start the remote management, the virtual server and DMZ entry will not work.

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Modify Login Password

FIR302B			
+ Setup Wizard	Modify Login Password		
+ Network Settings	This page can modify the registry router into	terface username and password.	
+ Wireless Settings	Note: The username and password length required is less than or equal to 16		
+ Health And Power Saving			
+ Running Status	Account Management		
System Tools	Username:	admin	
System Management	New Password:	•••••	
Time Management	Confirm New Password:	•••••	
WEB Management			
Modify Login Password			
System Diagnostics		Save Cancel	
System Log			
+ Logout			

Manage the details of your account and modify username and password.



Note

Username and password lengths are less than or equal to 16 characters.

System Diagnostics

	System Diagnostics You can use Ping or Tracert comman	nd to test connec	tivity between the router and other hosts	HEP
Wireless Settings	Parameter Settings			
Health And Power Saving	Selection:	@ Ping	Tracert	
+ Running Status		() I III		
System Tools	IP Address/Domain Name:	192.16	8.2.1	
System Management	Number of Ping Packages:	4	(1-50)	
Time Management	Ping Packet Size:	64	(64-1472)	
WEB Management	Tracert Hops:	20	(1-30)	
Modify Login Password				
System Diagnostics	Diagnostic Results			
System Log	PING 192.168.2.1 (192.168.2.1): 56 data bytes A bytes A bytes from 192.168.2.1 (192.168.2.1): 56 data bytes A bytes from 192.168.2.1 (192.168.2.1): 56 data bytes A by			
• Logoul	PRIO 1021 1882-21 (102:1862-21):66 alta bytes * 64 bytes from 102:1862-11: sec-21 title44 time=0.060 ms 56 bytes from 102:1862-11: sec-21 title44 time=0.060 ms 64 bytes from 102:1862-11: sec-21 title44 time=0.060 ms 56 bytes from 102:1862-11: sec-21 title44 time=0.060 ms 64 bytes from 102:1862-11: sec-21 title44 time=0.060 ms 56 bytes from 102:1862-11: sec-31 title44 time=0.060 ms 64 bytes from 102:1862-11: sec-31 title44 time=0.060 ms - 64 bytes from 102:1862-11: sec-31 title44 time=0.060 ms - 64 bytes from 102:1862-11: sec-31 title44 time=0.060 ms - 64 bytes from 102:1862-11: sec-31 title44 title44 title40 ms - 7 - - 7 - - 7 - - 7 - - 7 - - 7 - - 7 - - 7 - - 7 - - 7 - - 7 - - 7 - - 7 - -			
Start Cancel				

Ping or Tracert commands to test connectivity between router and other hosts. Please proceed as follows:

- Select Ping.
- Enter IP Address / Domain Name.
- Enter Number of Ping Packages, Ping Packet Size and Tracert Hops.
- Click Start.

You will see the results in **Diagnostic Results**.



System Log

FIR302B					
+ Setup Wizard	System Log				
+ Network Settings	You can view system log on the page.				
+ Wireless Settings	System Log				
+ Health And Power Saving	System Log				
+ Running Status	System Log.				
System Tools	IP Address:	192.168.2.1			
System Management	Note: IP is empty, you can view	v local log.			
Time Management					
WEB Management		Save			
Modify Login Password	Log Information				
System Diagnostics					
System Log + Logout	Log Information 30-Jan 1 00:00:16 dismasql[1327]: started, version 1.10 cachesize 150 28-Jan 1 00:00:16 dismasql[1327]: reading /stc/hosts 30-Jan 1 00:00:16 dismasql[1327]: reading /stc/hosts 30-Jan 1 00:00:18 Jmg/1890]: jmp started 30-Jan 1 00:00:18 Jmg/1890]: jmp started 30-Jan 1 00:00:18 Jmg/1890]: jmp started 77-Jan 1 00:00:22 dismasql[1327]: reading /stc/hosts 30-Jan 1 00:00:24 Jmg/1890]: setsockopt MTL 20D. UPSTREAM ver=0x16 name=br0 index=7 13-Jan 1 00:00:24 Jmg/1890; Jms/1800, UPSTREAM ver=0x16 name=br0 index=7 13-Jan 1 00:00:24 Jmg/1890; Jms/1800; UPSTREAM ver=0x16 name=br0 index=7 13-Jan 1 00:01:11 Jmg/1890; Jms/ADD, JmT; DEL, JMT; JMT; JMT; JMT; JMT; JMT; JMT; JMT;				

If you want to set more detailed settings, select **Advanced** beside the **Basic** button at the top of the screen.



4.2.7 Wireless Advanced Settings

There are WDS Settings, WPS Settings and Wireless Advanced Settings.

WDS Settings

The WDS function can help you to extend the wireless range. It supports Lazy Mode, Repeater Mode und Bridge Mode.

PHICOM	M
PHICOM	Language: English Service Tel: 86-400-720-5677 Basic Advanced
FIR302B	E Contraction of the second
Wireless Advanced Settings	WDS Settings
WDS Settings	This page can configure the WDS function, it supports Lazy mode, Repeater mode and Bridge mode.
WPS Settings	WDS Settings
Wireless Advanced Settings	
+ DHCP Settings	WDS Mode. Repeater Mode Wireless AP List
+ Security Settings	Note:WDS connection, If the wireless security mode is one of WPA, WPA2 and WPA/WPA2, the wireless routers must be working at the same SSID
+ Parental Control	
+ Application	Add Save Cancel
+ Dynamic DNS	
+ Routing Settings	
+ Bandwidth Control	
+ IP and MAC Binding	
+ Logout	

Menu item	Explanation
WDS Mode	
Lazy Mode	In this mode no further configurations are needed. Click Save and the connecting client should be in Repeater Mode or Bridge Mode.
Bridge Mode	In this mode you can connect two or more wired devices wirelessly. You need to add the wireless MAC address of the connected device into the routers AP MAC address table or select one from the scanning table. At the same time the connected device should be in Lazy, Repeater or Bridge Mode .
Repeater Mode	You can select this mode to extend the distance between two WLAN devices. It operates as WDS repeater and connects to both – client card as AP and another AP. In typical repeater applications APs with WDS function connect to other APs, which have to support WDS too. In this mode you need to add the MAC address of the connected device into the routers AP MAC address table. The connected client should be in Lazy, Repeater or Bridge Mode.



Input the MAC address of the other wireless router in **MAC address of the wireless** access point.

Note

Two wireless routers must use the same channel, encryption type and encryption key. If the wireless security mode is one of WPA, WPA2 and WPA/WPA2, the wireless routers must work with the same SSID.

WPS settings

The WPS function can help to add a new device to the network quickly. If the client device supports WPS and is equipped with a WPS button, you can add it to the network by pressing the WPS button on the device and then press the button of the router two minutes. The status LED on the router becomes green after five minutes, if the device has been added to the network successfully. If your client asks for the router's PIN number, enter this PIN number into your client device. If your client device has a WPS Settings PIN number, enter that number into the PIN box.

PHICOM	Language: En	glish 💽 Service Tel: 88-400-720-5877 Basic Advanced
FIR302B		
	WPS Settings	
WDS Settings	You can easily establish a secure wireles:	s network by entering the PIN codes or using the button.
	Note:when WPS connects successfully,the	e SSID,way of encryption, encryption algorithm and secretion key will change.
Wireless Advanced Settings		
+ DHCP Settings	WPS Settings	
+ Security Settings	WPS Settings:	Enabled Obisabled(Default Disabled)
+ Parental Control		
+ Application		
+ Dynamic DNS		Save
+ Routing Settings		
+ Bandwidth Control	WPS Settings List	
+ IP and MAC Binding	WPS Current Status:	Initialize Refresh
+ Logout	WPS SSID:	PHICOMM_111189
	WPS Authentication Mode:	WPA/WPA2-PSK
	WPS Encryption Type:	AES
	PIN:	10258750 Generate PIN
	WPS Mode Setting	
	WPS Mode:	●PIN ◎PBC
	PIN:	
	A	ctivate WPS Stop WPS

Menu item	Explanation
WPS Settings	
WPS (WiFi Protected	Establish easy and quick a connection between router
Settings)	and client device through encrypted contents. The users
	only enter the PIN code to configure.



Menu item	Explanation
WPS Mode	Supports two ways of configuration:
	PBC (Push-Button-Configuration)
	PIN Code
PBC (Push-Button-	Select PBC button or press the WPS button on the panel
Configuration)	of your router (press WPS button on the router and
	press the WPS button on another network device within
	two minutes).
PIN	Enable this option, you need to enter a wireless clients
	PIN code in the blank field and keep the same code in
	the client.

Wireless Advanced Settings

This section is to configure the advanced wireless settings of the router. If you are not familiar with the setting items on this page, it is strongly recommended to keep the provided default values; otherwise it may result in poor wireless network performance!

FIR302B				F
Wireless Advanced Settings	Wireless Advanced Settings			ELP
WDS Settings	On this page,you can configure the Beacon Interval, Fragment Threshold and other wireless advanced parameters.			-
WPS Settings	Wireless Advanced Settings			
Wireless Advanced Settings	Peacon Interval:	100	(20.1000 Default100)	
+ DHCP Settings	Beacon Interval.	100	(20-1000, Default 100)	
+ Security Settings	DTIM Interval:	3	(1-255, Default3)	
+ Parental Control	RTS Threshold:	2347	(1-2347, Default:2347)	
+ Application	Fragment Threshold:	2346	(256-2346, Default:2346)	
+ Dynamic DNS				
+ Routing Settings				
+ Bandwidth Control		Save	Cancel	
+ IP and MAC Binding				
+ Logout				

Menu item	Explanation
Wireless Advanced Settings	
Beacon Interval	Interval for sending packets of the beacon frame (value
	range 20 – 1000 ms, default = 100 ms)
DTIM Interval	Interval for Delivery Traffic Indication Message (DTIM) –
	value range 1 - 255 ms, default = 1ms
RTS Threshold	If the packet size is larger than the preset RTS size, the
	wireless router will send a RTS to the destination station
	to start a negotiation (default = 2347).
Fragment Threshold	Sets the fragment threshold. Packets larger than the size



Menu item	Explanation
	set in this field will be fragmented. Too many data
	packets will degrade the wireless network performance.
	The fragment threshold value should not be set too low
	(default = 2346).

DHCP Settings

DHCP Service

If you enable the DHCP server of the router, the DHCP server will configure the TCP/IP protocol for each PC in the LAN automatically.

PHICOM	Language:	English Service Tel: 88-400-720-5677 Basic Advanced	
FIR302B			F
+ Wireless Advanced Settings	DHCP Service		ELP
DHCP Settings	DHCP service parameters can be config	figured on this page.	0
DHCP Service	DUCD Server Settings		
Static Address Reservation	blice server settings		
+ Security Settings	DHCP Server:	Enabled Disabled	
+ Parental Control	Start IP Address:	192.168.1.100	
+ Application	End IP Address:	192.168.1.200	
+ Dynamic DNS	Lease Time:	86400 sec (The default value is 86400,that is one day.)	
+ Routing Settings			
+ Bandwidth Control			
+ IP and MAC Binding		Save Cancel	
+ Logout			

Menu item	Explanation
DHCP Server Settings	
DHCP Server	If you disable this server, please make sure that another
	DHCP server is enabled in your network.
Start IP Address	1st address in your IP address pool
End IP Address	Last address in your IP address pool
Lease Time	This is the time interval, after the server uses a different
	DHCP address.



Static Address Reservation

When you specify a reserved IP address for a PC in the LAN, the PC will always receive the same IP address each time accessing the DHCP server. Reserved IP addresses could be assigned to servers that require permanent IP settings.

PHICOM	1M	Language: English	Service Tel: 86-400-720-5677	Basic Advanced
FIR302B • Wireless Advanced Settings • DHCP Settings	Static Address In this page, you	Reservation can set static address allocation of	the DHCP server.	
DHCP Service Static Address Reservation • Security Settings	Rules (supports	s up to 16)		
Parental Control Application Dynamic DNS	Note:After addin remove added r	g the rule, restart the router to take ules.	effect, if you modify the LAN IP address, it is rea	commended to
Routing Settings Bandwidth Control IP and MAC Binding		Save	Cancel	
+ Logout	Setting Rules L No.	IP Address	MAC Address	Delete
		Delete	Cancel	

Menu item	Explanation
Rules (supports up to 16)	
IP address	IP address, reserved for routers
MAC address	MAC address of the PC for which you want to reserve an
	IP address



4.2.8 Security Settings

Click Firewall to configure.

Firewall

Select **Enabled** or **Disabled** to enable or disable the firewall.

If the firewall is enabled, the system refuses all requests from the internet. Only packets from the LAN which are belonging to defined connections and for which the status database is created can pass the firewall and can have access to the LAN. By default the firewall is enabled. To expose all hosts in the LAN to the internet you can disable the firewall.

EIR302B			
+ Wireless Advanced Settings	Firewall		
+ DHCP Settings	You can configure firewall parameters on the page.		
Security Settings	Pasic Socurity Softings		
	Eirowall:	@Enabled(Recommended) @Disabled	
+ Parental Control	r newall.	Chabled(recommended) Disabled	
+ Application	Advanced Security Settings		
+ Dynamic DNS	DoS Attack Prevention:	Enabled Disabled(Recommended)	
+ Routing Settings	Open the ICMP-FLOOD Attack Filtering:		
+ Bandwidth Control	ICMP-FLOOD Packet Threshold (5-3600):	50 Packets/sec.	
+ IP and MAC Binding	Open the UDP-FLOOD Attack Filtering:		
+ Logout	UDP-FLOOD Packet Threshold (5-3600):	500 Packets/sec.	
	Open the TCP-SYN-FLOOD Attack Filtering:		
	TCP-SYN-FLOOD Packet Threshold (5-3600):	50 Packets/sec.	
	Ping From WAN Port Is Prohibited:		

Menu item	Explanation
Advanced Security Settings	
DoS Attack Prevention	Enable for attack prevention.
Open the ICMP-Flood Attack	Select to protect against ICMP-FLOOD attacks.
Filtering	
ICMP-Flood Packet	If the number of ICMP data packets exceeds the
Threshold	threshold, the defense measures act immediately.
Open the UDP-Flood Attack	Select to protect against UDP-FLOOD attacks.
Filtering	



Menu item	Explanation
UDP-Flood Packet Threshold	If the number of UDP data packets exceeds the
	threshold, the defense measures act immediately.
Open TCP-SYN-FLOOD	Select to protect against TCP-SYN-FLOOD attacks.
Attack Filtering	
TCP-SYN-Attack Packet	If the number of TCP-SYN data packets exceeds the
Threshold	threshold, the defense measures act immediately.
Ping from WAN Port is	If you select this option, the PC in the WAN cannot send
prohibited:	the Ping packets to the router.

4.2.9 Parental Control

Parental Control

This page is used to enable the firewall filtering function. You can select the blocking service or set the parameters (MAC address, IP address and ports), which need to be blocked, manually. You must set at least one filtering condition. You may also set multiple conditions or all conditions.

PHICOM	м _		
	Language:	nglish Service Tel: 86-400-720-5677	Basic
FIR302B			
+ Wireless Advanced Settings	Parental Control		ė
+ DHCP Settings	MAC/IP/PORT filtering rules can be set of	n this page.	_
+ Security Settings	Note: The system time and local time mu	ist be synchronized before adding rules Go To Set	
Parental Control			
Parental Control	Basic Setup(Supports up to 10)		
URL Filtering	Parental Control:	Enabled ODisabled	
+ Application			
+ Dynamic DNS		Save	
+ Routing Settings			
+ Bandwidth Control	Parental Control Setup		
+ IP and MAC Binding	Access Control List:	Custom ACL	
+ Logout	Source MAC Address:		
	Dest IP Address:		
	Source IP Address:		
	Protocol:	None 💌	
	Dest Port Range:	-	
	Source Port Range:		
	Online Time(Day,Deek):	♥ All ♥ Monday ♥ Tuesday ♥ Wednesday ♥ Thursday ♥ ♥ Saturday ♥ Sunday	Friday
	Online Time(Hours):	All Time Period - (Hours 0-2)	3)
		Save Cancel	



Note

Please synchronize the router's time first, if selecting the timing function.



URL Filtering

Enter the URL address you want to filter in the URL box.

PHICOM	Langue	age: <mark>English 💌</mark> Service Tel:	86-400-720-5677 Basic	Advanced
FIR302B				6
+ Wireless Advanced Settings	URL Filtering			Ę
+ DHCP Settings	You can configure URL filtering ru	ules on this page.		
+ Security Settings	UDI Filtering Dulas/The maxim	um number of rules is 40)		
Parental Control	URL Filtering Rules(The maxin			
Parental Control	URL:	http://		
URL Filtering				
+ Application		Save		
+ Dynamic DNS				
+ Routing Settings	Current URL Filtering Rules			
+ Bandwidth Control	NO.		URL	
+ IP and MAC Binding				
+ Logout		Delete		



4.2.10 Application

Virtual Server

	1M				Contraction of the second s		
— БНІСО́А	M .	Language: E	nglish 💌		Basic Advance		
FIR302B							
+ Wireless Advanced Settings	Virtual Server						
DHCP Settings	Set up Virtual server(Port Forwarding) on	this page, this fun	ction will open a private port to in	ternet that can be accessed by others		
 Security Settings 	Port Forwarding (S	upports up to 10)					
Parental Control	Port Forwarding		Enabled)isabled			
	T ortr orwarding.		Crindbiod () -				
DMZ				Save			
UPnP	Port Forwarding Se	ettings					
Dynamic DNS	IP Address:						
Routing Settings	Port Range:		- (Port Range:1-65535)				
Bandwidth Control	Protocol:		TCP & UDP	TCP & UDP			
IP and MAC Binding			Line ment				
+ Logout			Save	Cancel			
	Port Forwarding Li	st					
	No	IP Address		Port Range	Protocol		

Select **Enabled** under **Port Forwarding** function to open a private port to internet that can be accessed by others.

Menu item	Explanation
Port Forwarding Settings	
IP address	IP address of the server you want to open the port, for example 192.168.2.X
Port Range	Port range of the server you want to open.
Protocol	Protocol of the server.



Note

Please assign a static IP address to the server.



DMZ

Please select **Enabled** under **DMZ Host**.

PHICOM	1M Langue	age: <mark>English 💌</mark> S		Basic Advar
FIR302B				
+ Wireless Advanced Settings	DMZ			
+ DHCP Settings	Set the DMZ host on this page, it	will lead a PC completely e	xposed on the internet.	
+ Security Settings	D11711			
+ Parental Control	DMZ Host			
Application	DMZ Status:	©Enabled @Di	isabled	
Virtual Server	DMZ Host IP Address:			
DMZ	1			
UPnP		0.000	0	
+ Dynamic DNS		oave	Gancel	
+ Routing Settings				
+ Bandwidth Control				
+ IP and MAC Binding				
+ Logout				

Menu item	Explanation
DMZ Host	
DMZ Status	Select Enabled or Disabled.
DMZ-Host IP address	Enter the IP address of the PC in the LAN that you want
	to set.

Note



Before using the DMZ host, you should assign a static IP address to the designated server. Then enter this static IP address into the router as its IP address.

DMZ priority is higher than the port forwarding. If the DMZ is open, all port forwarding rules are not effective.

UPnP

Select Enabled or Disabled.

PHICOM	M		English 💌			Basi	c Advanced)
								1
+ Wireless Advanced Settings	UPnP							
+ DHCP Settings	This page	can provide the function of s	etting UPnP(Univers	al Plug and Pla	ay).			
+ Security Settings	HDnD							
+ Parental Control	UPoD Of							
	or nil ot	UPIIP Status.						
Virtual Server								
DMZ		Save						
+ Dynamic DNS	UPnP Se	ttings List						
+ Routing Settings	No.	Application Remarks	External Port	Protocol	Internal Port	IP Address	Status	
+ Bandwidth Control								
+ IP and MAC Binding				-fac - b				
+ Logout			R	eiresn				



4.2.11 Dynamic DNS

The dynamic DNS allows assigning a fixed host and domain name to a dynamic internet IP address. If you want to use this feature, please register at a DDNS service provider for this service (e. g. www.no-ip.com). After registration please select your service provider and enter **Username**, **Password** and **Dynamic DNS Domain Name**.

PHICOM	Language:	English 💌 Service (Tel: 86-400-720-5677	Basic	ICE
FIR302B					
+ Wireless Advanced Settings	Dynamic DNS				
+ DHCP Settings	On this page, you can set the paramete	rs of Dynamic DNS.			
+ Security Settings	DDNS Service				
+ Parental Control	DDWS Service				
+ Application	DDNS Service Provider:	Close			
Dynamic DNS	Provider Link:	Dyndns.org	has not been selected.		
	Username:	www.zoneedit.com www.no-ip.com			
+ Routing Settings	Password:				
+ Bandwidth Control	Dynamic DNS Domain Name:				
+ IP and MAC Binding					
+ Logout		Save	Cancel		

4.2.12 Routing Settings

PHICOM	IM	Language:	English 💽 Service		n B	asic Advance	
FIR302B							
Wireless Advanced Settings	Static Routing	Table					
+ DHCP Settings	You can add sta	atic routing table of LAN a	and WAN on this page.				
+ Security Settings	Static Pouting	Table Settings (Suppo	rte un to 10)				
Parental Control	State Roading	Table Setungs (Suppo					
+ Application	Destin Addre	55.					
+ Dynamic DNS	HOST/NET:		HOST				
Routing Settings	Subnet Mask:		255.255.255.255				
	Gateway:						
Bandwidth Control	Interface:		LAN				
IP and MAC Binding	Metric:						
			Save				
	Current Statio	Routing Rules					
	No.	Dest IP Address	Subnet Mask	Gateway	Interface	Delete	
			Delete	Cancel			



Static Routing Table

Static routing is a form of routing that occurs when a router uses a manuallyconfigured routing entry, rather than information from a dynamic routing protocol to forward traffic.

Menu item	Explanation				
Static Routing Table Settings (support up to 10)					
Destination IP address	IP address of the network or host that you want to				
	assign to a static route				
Subnet Mask	The subnet mask determines which portion of an IP				
	address is the network portion and which portion is the				
	host portion.				
Gateway	This is the IP address of the default gateway device that				
	allows the contact between router and network or host.				

4.2.13 Bandwidth Control

PHICON	1M		English				в	asic	
FIR302B									
+ Wireless Advanced Settings	IP Bandw	idth Control							
DHCP Settings	In this pag	e, you can enable or disa	ble IP bandwidth o	control.					
+ Security Settings	ID Dandu	width Sottinge/Supporte	up to 10)						
Parental Control	ID Dearth	IP Bandwidth Settings(Supports up to 10)							
+ Application	IP Ballow	ndur Seungs.	Enable	u ODISableu					
+ Dynamic DNS	Total Ups	stream Bandwidth:		Kbps(100-95367)					
Routing Settings	Total Dov	Total Downstream Bandwidth: Kbps(100-95367)							
Bandwidth Control									
				Save					
IP and MAC Binding	IP Bandy	vidth Control List							
Logout	NO	Description	Upstream (KI	Bandwidth ops)	Downstrea (K	m Bandwidth bps)	Status	Edit	Delete
			Minimum	Maximum	Minimum	Maximum			
				List is null.					

IP Bandwidth Control

Menu item	Explanation			
IP Bandwidth Settings				
IP Bandwidth Settings	Select Enabled or Disabled.			
Total Upstream Bandwidth	Rate of uploading through WAN interface			
Total Downstream Bandwidth	Rate of downloading through WAN interface			



Note

Bandwidth conversion: 1 Mbps = 1024 Kbps



Select the type of the broadband line and the bandwidth according to the actual situation. If you are not sure about the information, please consult your broadband provider.

After finishing the settings, click the **Save** button to apply the settings.

4.2.14 IP and MAC Binding

Static ARP Binding

You may use the ARP binding function to control the static ARP cache table for preventing the ARP deception effectively.

PHICOM	M	Language: Ef	Iglish 💌			Basic	Advanced
FIR302B							
+ Wireless Advanced Settings	Static ARP Binding						
+ DHCP Settings	On this page you can set MAC address and IP address matching rules to prevent ARP attack.						
+ Security Settings	Static ADD Dindine/Supports up to 40)						
+ Parental Control	State ARP binding supports up to to)						
+ Application	Static ARP Binding:		©Enabled ()	Disabled			
	Static ARP Binding						
+ Routing Settings	IP Address:						
+ Bandwidth Control	MAC Address:						
IP and MAC Binding	MAG Address.						
					-		
+ Logout				Save	1		
	Static ARP Binding Li	st					
	No.	IP Address			MAC Address		
	Note: If you bind your lo	calhost IP with nor	liocal MAC addre	ss,the page v	will not operate. Cancel		

Menu item	Explanation
Static ARP Binding	
IP address	IP address of the LAN PC
MAC address	MAC address of the LAN PC



4.2.15 Logout

PHICOM	Language: English Service Tel: 66-400-720-5677 Basic Advanced
FIR302B	
+ Wireless Advanced Settings	Logout
+ DHCP Settings	Are you sure to exit from the system?
+ Security Settings	
+ Parental Control	Logout
+ Application	
+ Dynamic DNS	
+ Routing Settings	
+ Bandwidth Control	
+ IP and MAC Binding	
■ Logout	
Logout	

Click **Logout** to exit from the router's configuration page.



5. Troubleshooting

Why I cannot open the management page?

- Turn off browser's proxy settings.
- Make sure that your network card has been set to obtaining an IP automatically.
- Make sure that your LAN and wireless LED is on and all cables are connected correctly.

I forgot my network name or encryption keys!

- Try to set up a wired connection and configure the wireless encryption again.
- Press the Reset button of the router longer than 5 seconds.

Why I cannot access the internet via LAN adapter?

- Move the router closer to the wireless client.
- Check whether the wireless adapter is connected to the correct wireless router.
- Check whether the wireless channel conforms to the channels available in your country / area.
- Retry using another Ethernet cable.
- Check if all cables are connected correctly.



Factory default settings

Item	Default
Basic settings	
Username	admin
Password	admin
IP address	192.168.2.1
Subnet mask	255.255.255.0
Wireless	
SSID	Phicomm_16AE03
Wireless security	Disabled
Wireless MAC address filtering	Disabled
DHCP	
DHCP server	Enabled
Start IP address	192.168.2.100
End IP address	192.168.2.200

6. Technical support – contact us

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