



3-in-1 Dual-Band Wireless-N900

Gigabit Access Point / Wi-Fi Bridge / Range Extender



Step-by-Step Setup Manual

E8661

Second Edition Sept. 2013

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Table of contents

1.1 Package contents	1. Introduction	4
2. Network Map52.1 Step-by-Step for Wi-Fi Bridge Mode62.2 Step-by-Step for Access Point Mode82.3 Step-by-Step for Range Extender Mode13. Wireless Settings14. LAN Settings185. Administration186. System Log21	1.1 Package contents	4
2.1 Step-by-Step for Wi-Fi Bridge Mode	1.2 System requirements	4
2.2 Step-by-Step for Access Point Mode	2. Network Map	5
2.3 Step-by-Step for Range Extender Mode	2.1 Step-by-Step for Wi-Fi Bridge Mode	6
3. Wireless Settings154. LAN Settings185. Administration186. System Log21	2.2 Step-by-Step for Access Point Mode	8
 4. LAN Settings	2.3 Step-by-Step for Range Extender Mode	11
5. Administration 18 6. System Log 21	3. Wireless Settings	15
6. System Log	4. LAN Settings	
	5. Administration	
Notices	6. System Log	21
	Notices	22

1. Introduction

1.1 Package contents

ASUS EA-N66 x1

☑ Quick Start Guide x1

Support CD x1

✓ Warranty card x1✓ Ethernet cable x1



If any of the above items is damaged or missing, contact your retailer immediately.

1.2 System requirements

To set up your network, you need one or two computers that meet the following system requirements:

- Ethernet RJ-45 (LAN) port
- IEEE 802.11 b/g/n wireless capability
- An installed TCP/IP service
- Web browser such as Internet Explorer, Mozilla Firefox, Apple Safari, or Google Chrome.

The following are the factory default settings:

IP address:	10.0.1.1
User Name:	admin
Password:	admin

2. Network Map



This is an overview of the EA-N66's Network Map page.

Click each of the icons on the Network Map to display detailed information regarding each network device. The icon on the left is for the parent Access Point. The icon on the right is for clients on the network. Clicking the middle icon displays the current status and information about the EA-N66.

EA-N66 Item	Point Mode Clients: 1 6 Stats Referation	
EA-N66 Item	i6 status Information	
Item	Information	
name(SSID)		
Key	asus#12345678	
bandwidth	20/40 MHz	
	Auto 5 GHz	
Frequency	192.158.1.1	
	ress e Version: Aj	

On the left side of the screen is the Advanced Setup panel. Use the Setup panel to navigate to specific features of the EA-N66.



Click **Quick Internet Setup** to configure the EA-N66's network connection.

2.1 Step-by-Step for Wi-Fi Bridge Mode

Step 1: Enter Quick Internet Setup



By default, the EA-N66 serves as a network adapter. Click **Next** to begin setup for Wi-Fi Bridge Mode.

Step 2: Site Survey

/SUS		
Quick Internet Setup	Site Survey	■ △ □
Starting Wizard		
Security Setting	Please wait for 1 minute.	
Finalize Setting	25%	25%
	Previous No	

The EA-N66 will search for available wireless networks.

To assist in network discovery, place the Access Point near the EA-N66.

Step 3: Select your parent Access Point and enter the Security Key



Select the Access Point from the list of available wireless networks. Enter the Security Key.

If the EA-N66 is unable to detect the correct wireless network, move the EA-N66 closer to the Access Point and click **Refresh**.

Step 4: Wait for the EA-N66 to connect to the parent Access Point



Allow the EA-N66 a few minutes to connect to your parent Access Point.

Step 5: Finish setup process



Congratulations! You have finished the setup process!

Please refer to the illustrations to interpret the LED indicators on the EA-N66.

2.2 Step-by-Step for Access Point Mode

Step 1: Select setup mode



To set up Access Point mode, do not click **Next** on the first page of Quick Internet Setup. Instead, click the link provided to switch setup mode.





Select "I wish to establish a new wireless network". Click Next.

Step 3: Set up the SSID and password

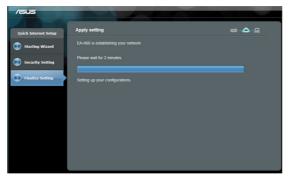


Assign a new SSID and password to the EA-N66. Enter a unique SSID to any avoid any network issues.



EA-N66 cannot run on two frequencies (2.4 GHz and 5GHz) at the same time. A frequency of 2.4GHz works best for most wireless devices but a frequency of 5GHz is recommended for better performance and less interference.

Step 4: Wait for setup to complete



Allow a few minutes for the EA-N66 to establish the new wireless network.

Step 5: Finish setup



Follow the short tutorial to complete setup.

Disconnect the Ethernet cable between the EA-N66 and your PC or laptop. Connect the Ethernet cable to the EA-N66 and the wireless router.



Step 6: Bookmarking the Setup Page

It is recommended that you reset the EA-N66 when changing any settings. However, you can create a bookmark on your browser to quickly access setup page at any time.

2.3 Step-by-Step for Range Extender Mode

Step 1: Select setup mode



To set up Wireless Range Extender mode, do not click **Next** on the first page of Quick Internet Setup. Instead, click the link provided to switch setup mode.

Step 2: Choose Repeater mode



Select I wish to extend my existing wireless network. Click Next.

Step 3: Site Survey

/ISUS		
Quick Internet Setup	Site Survey	● ▲ ₽
Starting Wizard	Searching for available networks, please wait	
Security Setting	Please wait for 1 minute.	
	25%	
Finalize Setiing	President Control of C	Next

The EA-N66 will search for available wireless networks.

To assist in network discovery, place the Access Point near the EA-N66.

Step 4: Select your parent Access Point and enter the Security Key



Select the Access Point from the list of available wireless networks. Enter the Security Key.

If the EA-N66 is unable to detect the correct wireless network, move the EA-N66 closer to the Access Point and click Refresh.

Step 5: Set up the SSID and password for your extended network

/sus	and a second	
Quick Internet Setup	Setup your extended network	*** **
Starting Wizard	Please enter the Name and password you wish for your exten	
Security Setting	Network Name(SSID) (2) Zack's RT-N10_RPT	
Finalize Setting	Security Key 👔 🚥 👘	
	Previous	м

By default, the EA-N66 will assign an SSID using the following format: "original-SSID_RPT".

The EA-N66 will also automatically enter the same password as your primary wireless network.

Step 6: Please wait while EA-N66 extends your wireless network



Step 7: Finish setup process

/5US		-	
Quick Internet Setup	Congratulations!!		ی انگران ک
Starting Wizard	You have succefully finish Watch the LED for the cu	ned the setup process rrent working status of EA-N66.	
Security Setting	Good signal	Weak signal	Disconnected
Finalize Setting		Rect	

Congratulations! You have finished the setup process!

Please refer to the illustrations to interpret the LED indicators on the EA-N66.

Additional setup and settings recommendations

- 1. Place the EA-N66 no closer than 1.5 meters from network clients under Access Point mode, or from its parent Access Point under Wi-Fi Bridge or Range Extender mode. The EA-N66 is designed to transmit signals over a distance. Place the EA-N66 at a distance of 1.5-3 meters away from the receiving device to get optimal performance.
- 2. Place the EA-N66 in an open are for a stronger signal. Objects, particularly those made of metal, can block wireless signals from the EA-N66.

3. Wireless Settings

The following settings are available from the Wireless General tab:

/545	Logout	Reboot	lish
Quick Internet Setup	General WPS Wireless MAC Filter RA	DIUS Setting Professional	
General	Wireless - General		
Network Map	Set up the wireless related information below.		
🛜 Wireless	Frequency	SGHz	
~	SSID		
ស៊ LAN	Hide SSID	● Yes ❷ No	
Administration	Wireless Mode	Auto	
	Channel	Auto -	
System Log	Channel bandwidth	20/40 MHz -	
	Extension Channel:	Auto	
	Authentication Method	WPA-Auto-Personal	
	WPA Encryption	TKIP+AES -	
	WPA Pre-Shared Key		
	Network Key Rotation Interval		
		Apply	
		2012 ASUSTEK Computer Inc. All	rights reserved.

The WPS tab provides configuration options for the Wi-Fi Protected Setup feature.



The Wireless MAC Filter tab allows you to block specific MAC addresses from accessing the wireless network.

/ISUS			Logout	Reboo		English
+ Quic Setu	ck Internet up	General WPS	Wireless MAC Filter	RADIUS Setting	Professional	
Ger	neral	Wireless - W	/ireless MAC Filter			
Retu	work Map			kets from devices wil	th specified MAC address	in your Wireless LAN.
🛜 Wir	eless	System Time System Time		Thu 100 01	00:31:00 1970	
G LAN						
Adm	ninistration	Basic Config				
		MAC Filter Mod	•	Disabled	3	
Syst	tem Log	MAC filter list				
			MAC	liter list		Edit
						Ð
					Apply	SUSTeK Computer Inc. All rights reserved.

The RADIUS Setting tab allows you to set up additional parameters for authorizing wireless clients through a RADIUS server.

Configure RADIUS settings when using [WPA-ENTERPRISE / WPA2-ENTERPRISE] as Authentication Method in the Wireless General tab.

/1545	Logout	Reboot	English
Quick Internet Setup	General WPS Wireless MAC Filter	RADIUS Setting Professional	
General	Wireless - RADIUS Setting		
Network Map		parameters for authorizing wireless clients through RADIUS s General] as [WPA-ENTERPRISEMPA2-ENTERPRISE].	
	Server IP Address		
🔂 LAN	Server Port	1812	
Ω	Connection Secret		
Administration		Apply	
System Log			
/ISUS	Logout	Reboot	English
Quick Internet Setup	General WPS Wireless MAC Filter RA	DIUS Setting Professional	
General			
	Wireless - Professional		
Network Map	Wireless Professional Setting allows you to set		commended.
🛜 Wireless	Enable Radio	⊙Yes ●No	
~	Date to Enable Radio	🖾 Sun 🖾 Mon 🖾 Tue 🖾 Wed 🖾 Thu 🖾 Fri 🖾 Sat	
🔝 LAN	Time of Day to Enable Radio		
Administration	Set AP Isolated	● Yes O No	
	Multicast Rate(Mbps)	Disable	
System Log	Fragmentation Threshold		
	RTS Threshold		
	DTIM Interval	1	
	Beacon Interval		
	Enable TX Bursting	Disable -	
	Enable Packet Aggregation?	Enable	
	Enable Greenfield?	Disable	
	Enable WMM	Enable	
	Enable WMM No-Acknowledgement	Disable -	
	Enable WMM APSD	Disable -	
	Enable WMM DLS?	Disable -	
	Transmit radio power	100 mV	
		Apply	

4. LAN Settings

The LAN settings area provides configuration options for your Local Area Network IP address, DNS, and default gateway.

//SUS	Logout	Reboot	English
Quick Internet Setup	LAN IP		
General	LAN - LAN IP		
Network Map	Configure the LAN (Local Area Network) setting		
🛜 Wireless	Do you want EA-N66 to get an IP address automatically? (DHCP client)	O Yes ● No	
~	IP Address	192.168.1.1	
ណ៍ LAN	Subnet Mask	255.255.255.0	
Administration	Default Gateway		
	Connect to DNS Server automatically?	O Yes ● No	
System Log	DNS Server1:		
	DNS Server2:		
		Apply	
			2012 ASUSTEK Computer Inc. All rights reserved.

5. Administration

The Administration area provides options for changing modes, configuring the EA-N66's login password, and upgrading or restoring the firmware.

/1545	Logout	Reboot	English
+ Quick Internet			
Setup	Operation Mode System Firmware Up	grade Restore/Save/Upload Setting	
General	Administration - System		
Network Map	Change the EA-N66 login password, time zone		
🛜 Wireless	Change the ASUS Ethernet Adapter login pas	isword	
	New Password		
🔂 LAN	Retype New Password		
	Miscellaneous		
Administration	Remote Log Server		
System Log	Time Zone	(GMT) Greenwich Mean тіте Manual daylight saving time.	•
	Time Lone	Remind: The System time zone is different from your locale s	etting.
	NTP Server:		NTP Link
	Enable Telnet	● Yes ❷ No	
	LED control		
	LED brightness	high	
	LED indication	flash -	
		Apply	

/15U5	Logout	Reboot	English	
+ Quick Internet				
Setup	Operation Mode System Firmware Upgrade Restore/Save/Upload Setting			
General	Administration - System			
Hetwork Map	Change the EA-N66 login password, time zone, and NTP server settings.			
🛜 Wireless	Change the ASUS Ethernet Adapter login pas	sword	and the second se	
	New Password			
🔂 LAN	Retype New Password			
Administration	Miscellaneous			
Administration	Remote Log Server			
System Log		(GMT) Greenwich Mean Time	•	
	Time Zone	Manual daylight saving time. Remind. The System time zone is different from your locale setting.		
	NTP Server		NTP Link	
	Enable Telnet	 ○ Yes ❷ No		
	LED control			
	LED brightness	high -		
	LED indication	flash		
		Apply		

Firmware Upgrade tab

/1545	Logout Reboot English		
Quick Internet Setup	Operation Mode System Firmware Upgrade Restore/Save/Upload Setting		
General	Administration - Firmware Upgrade		
Network Map	Please visit the ASUS support site (http://support.asus.com) to get the fatest firmware.		
🗑 Wireless	Product ID EA-N66		
~	Firmware Version 1.0.1.6b		
ណ៍ LAN	New Firmware File Choose File, no file selected		
Administration	Upload		
System Log	Note: System Log I. For a configuration parameter existing both in the idd and new firmware, its setting will be kept during the upgrade process I. In case the upgrade process fails. EAH66 enters the emergency mode submatically. The LED signals at the front OEAH66 will indicate such situation. Use the Firmware Restoration will on the CD to do system recovery. 2012 ASUSTeX Computer Inc. All rights reserved.		

The Firmware Upgrade tab allows users to upgrade the firmware of the EA-N66 by uploading the firmware file.



- Settings configured in the old firmware are retained during the upgrade process. If the upgrade process fails, EA-N66 will enter Emergency mode automatically.
- The LED lights on the front panel of the EA-N66 will indicate that it is currently in Emergency mode. Use the Firmware Restoration utility on the CD to restore the firmware to factory defaults.

/1545	Logout Reboot Eng	lish	
Quick Internet Setup	Operation Mode System Firmware Upgrade Restore/Save/Upload Setting		
General	Administration - Restore/Save/Upload Setting		
Network Map	This function allows you to save current settings of EA-N96 to a file, or load settings from a file.		
🛜 Wireless	Factory default Restore		
🔂 LAN	Save setting Save		
Administration	Restore setting Upload Choose File no file selected		
System Log			

6. System Log

Events and errors that occur while using the EA-N66 are recorded on the System Log. Refer to information provided by the System Log when contacting ASUS for technical support.

/3	us		Logout	Reboot		English
	Quick Internet Setup	General Log Win	eless Log			
	General	System Log - 0	Seneral Log			
品	Network Map	This page shows the detailed system's activities.				
(llo	Wireless	System Time		Thu, Jan 01 00:36:13 19	970	
ដ	LAN	Uptime		0 days 0 hours 36 minutes 18 si		
&	Administration	Jan 1 00:00:02 Jan 1 00:00:02 Jan 1 00:00:08 Jan 1 00:00:08	<pre>kernel: PROC INIT OK kernel: devpts: call rc: System startup! rc: (ap)link down/up</pre>	ed with bogus options		
	System Log					
			Clear	Save	Refresh	
					2012 ASUSTeK Computer	Inc. All rights reserved.

Notices

Federal Communications Commission

This device complies with FCC Rules Part 15. Operation is subject to the following two conditions:

- · This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

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.



WARNING: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Prohibition of Co-location

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

FCC Radiation Exposure Statement

This equipment complies with RFCC radiation exposure limits set forth for an uncontrolled environment .

This equipment should be installed and operated with minimum 20cm between the radiator and your body.

CE Mark Warning

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.

Operation Channels: Ch1~11 for N. America, Ch1~14 Japan, Ch1~ 13 Europe (ETSI)

DGT Warning Statement

Article 12

Without permission, any company, firm or user shall not alter the frequency, increase the power, or change the characteristics and functions of the original design of the certified lower power frequency electric machinery.

Article 14

The application of low power frequency electric machineries shall not affect the navigation safety nor interfere a legal communication, if an interference is found, the service will be suspended until improvement is made and the interference no longer exists.

低功率電波輻射性電機管理辦法

(1)「經型式認證合格之低功率射頻電機,非經許可,公司、商號或使用者均不得擅自變更頻率、 加大功率或變更原設計之特性及功能」以及(2)「低功率射頻電機之使用不得影響飛航安全及 干擾合法通信;經發現有干擾現象時,應立即停用,並改善至無干擾時方得繼續使用。前項合 法通信,指依電信法規定作業之無線電通信。低功率射頻電機須忍受合法通信或工業、科學及 醫療用電波輻射性電機設備之干擾」。

C Warning Statement

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

This radio transmitter(IC: 3568A-USB-N66) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Ant.	Antenna Type	Connector	Gain (dBi)	Remark
А	Dipole Antenna	Reversed-SMA	5.00	TX / RX
В	Dipole Antenna	Reversed-SMA	3.00	TX / RX
C	Dipole Antenna	Reversed-SMA	3.00	TX / RX
D	Dipole Antenna	Reversed-SMA	2.00	TX / RX
E	Dipole Antenna	Reversed-SMA	2.00	TX / RX

This Class [B] digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe [B] est conforme à la norme NMB-003 du Canada. For product available in the USA/Canada market, only channel 1~11 can be operated.

Selection of other channels is not possible.

IC Radiation Exposure Statement:

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

ASUS Recycling/Takeback Services

ASUS recycling and takeback programs come from our commitment to the highest standards for protecting our environment. We believe in providing solutions for you to be able to responsibly recycle our products, batteries, other components as well as the packaging materials. Please go to <u>http://csr.asus.com/english/Takeback.htm</u> for the detailed recycling information in different regions.

REACH

Complying with the REACH (Registration, Evaluation, Authorisation, and Restriction of Chemicals) regulatory framework, we published the chemical substances in our products at ASUS REACH website at <u>http://csr.asus.com/english/REACH.htm</u>.

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Authorised representative	ASUS Computer GmbH		
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Authorised distributors	BOGAZICI BIL GISAYAR SAN. VE TIC. A.S.		
in Turkey:	Tel:	+90 212 3311000	
	Address:	AYAZAGA MAH. KEMERBURGAZ CAD. NO.10 AYAZAGA/ISTANBUL	
	CIZGI Elektronik San. Tic. Ltd. Sti.		
	Tel:	+90 212 3567070	
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EEE Yönetmeliğine Uygundur.