



EA-N66

3-in-1 Dual-Band Wireless-N900

Gigabit Access Point / Wi-Fi Bridge / Range Extender



Step-by-Step Setup Manual

E7648

First Edition
August 2012

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1. Introduction

1.1 Package contents

- | | |
|--|---|
| <input checked="" type="checkbox"/> ASUS EA-N66 x1 | <input checked="" type="checkbox"/> Warranty card x1 |
| <input checked="" type="checkbox"/> Quick Start Guide x1 | <input checked="" type="checkbox"/> Ethernet cable x1 |
| <input checked="" type="checkbox"/> Support CD 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.

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.



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.

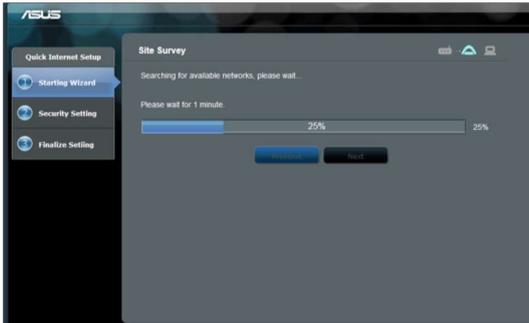
2.1 Step-by-Step for Wi-Fi Bridge Mode

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



The EA-N66 will search for available wireless networks. To assist in network discovery, place the Access Point near the EA-N66.

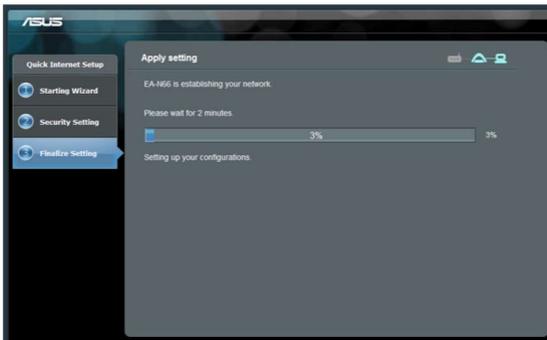
Step 3: Select your parent Access Point and enter the Security Key



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.

Step 2: Select Access Point mode



Select **“I wish to establish a new wireless network”**. Click **Next**.

Step 3: Set up the SSID and password

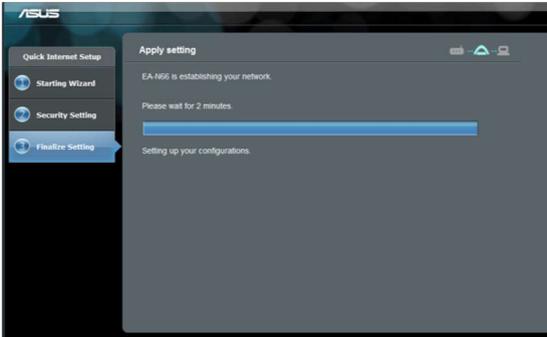


Assign a new SSID and password to the EA-N66. Enter a unique SSID to avoid any network issues.



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.

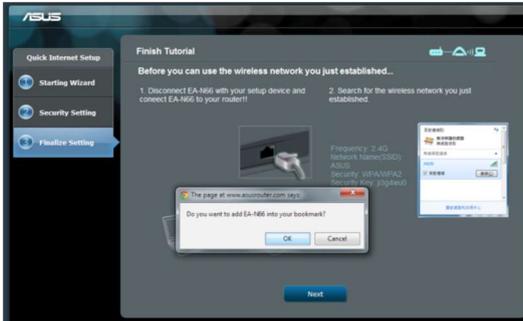
Step 5: Finish setup



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.

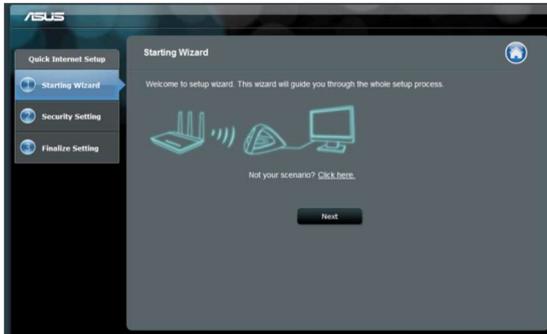
Step 6: Bookmarking the Setup Page



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



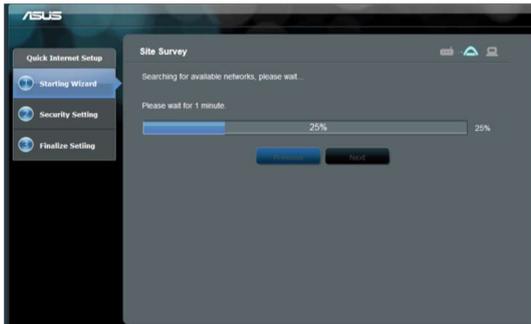
To set up Wireless Range Extender mode, do not click **Next** on the first page of Quick Internet Setup. Instead, click the link provided to switch setup mode.

Step 2: Choose Repeater mode



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

Step 3: Site Survey



The EA-N66 will search for available wireless networks.

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

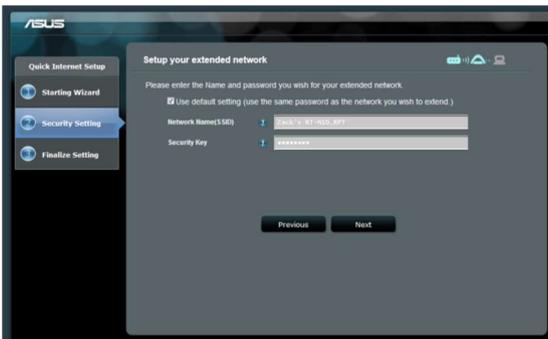
Step 4: Select your parent Access Point and enter the Security Key



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.

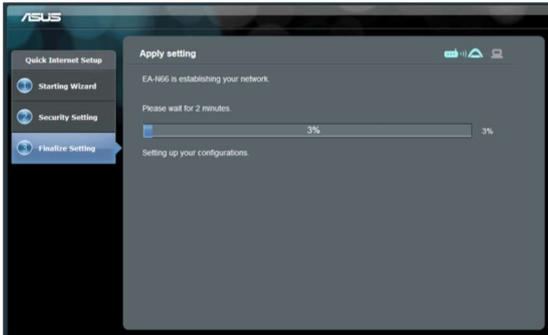
Step 5: Set up the SSID and password for your extended network



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



Congratulations! You have finished the setup process!

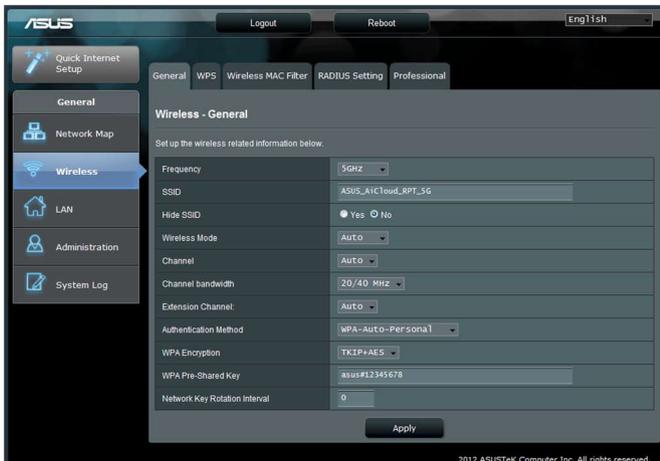
Please refer to the illustrations to interpret the LED indicators on the EA-N66.

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

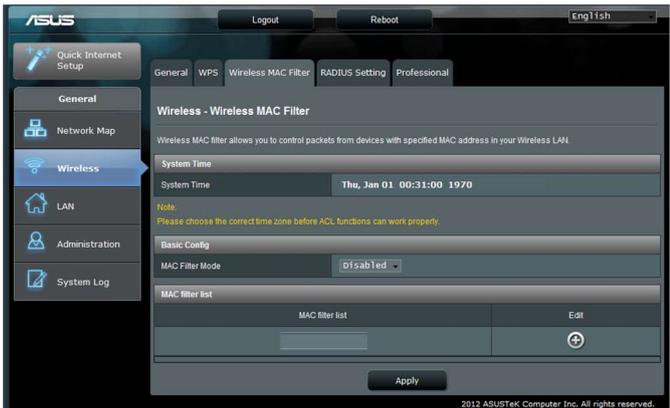
The following settings are available from the Wireless General tab:



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

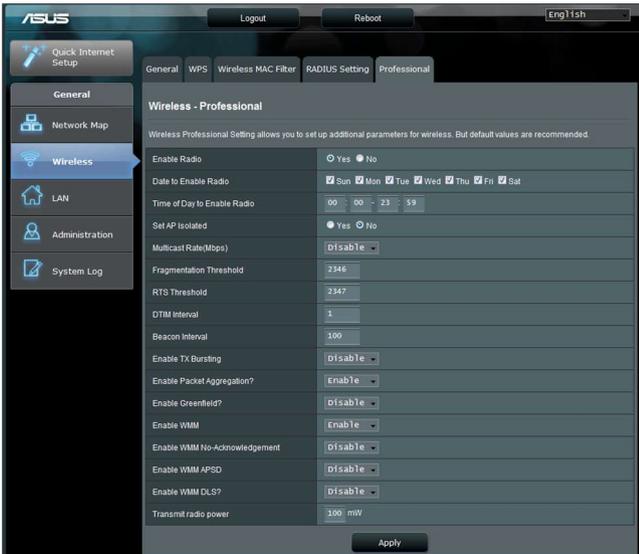


The Wireless MAC Filter tab allows you to block specific MAC addresses from accessing the wireless network.



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.



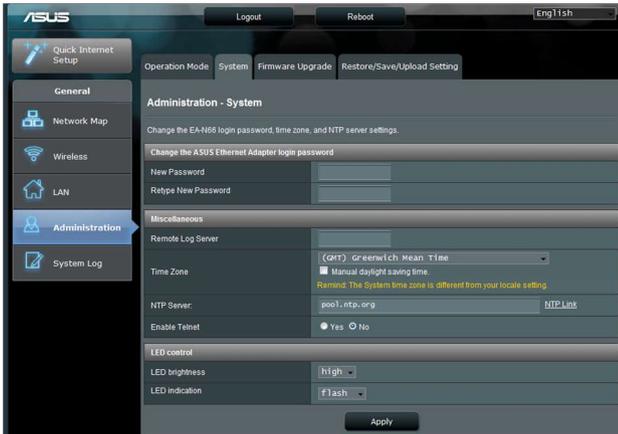
4. LAN Settings

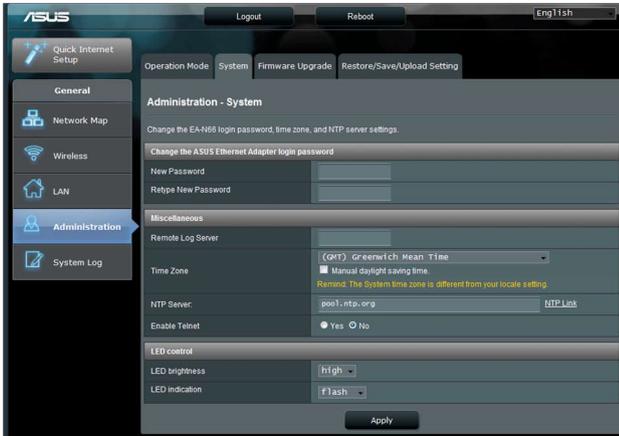
The LAN settings area provides configuration options for your Local Area Network IP address, DNS, and default gateway.



5. Administration

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





Firmware Upgrade tab



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.



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.



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」。

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
A	Dipole Antenna	Reversed-SMA	5.00	TX / RX
B	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 <http://csr.asus.com/english/Takeback.htm> 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 <http://csr.asus.com/english/REACH.htm>.

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EEE Yönetmeliğine Uygundur.