



Asus 4G-N12 User Manual

Wireless-n300 lte modem router

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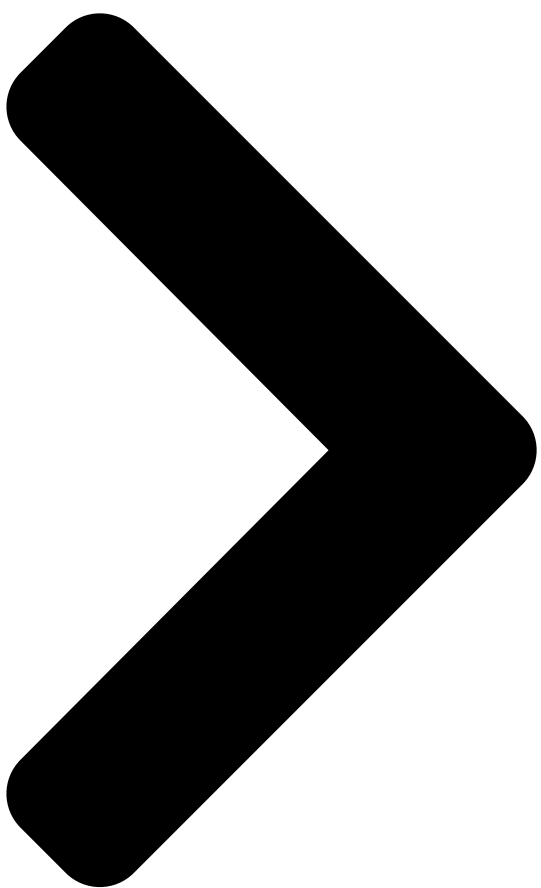
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User Guide

4G-N12

Wireless-N300 LTE Modem Router

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[Wireless Router Asus 4G-N12 Quick Start Manual](#)

Mobile broadband wireless lte router (52 pages)

[Network Router Asus 4G-N12 Quick Start Manual](#)

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Dual band wi-fi router (141 pages)

Summary of Contents for Asus 4G-N12

[Page 1: User Guide](#)

User Guide 4G-N12 Wireless-N300 LTE Modem Router...

[Page 2](#) Product warranty or service will not be extended if: (1) the product is repaired, modified or altered, unless such repair, modification or alteration is authorized in writing by ASUS; or (2) the serial number of the product is defaced or missing.

[Page 3: Table Of Contents](#)

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[Page 5: Getting To Know Your Wireless Router](#)

Getting to know your wireless router 1.1 Welcome! Thank you for buying an ASUS 4G-N12 Wireless LTE Router! ASUS 4G-N12 Wireless LTE Router features a 4G network module, letting you insert a SIM/USIM card to access and share your 4G LTE or 3G network connection via a secure wireless network or any of the four Ethernet ports.

[Page 6: Your Wireless Router](#)

1.3 Your wireless router WA N / L A N LTE signal strength LED 1~4 1 lit LED: Very weak signal; 2 lit LEDs: Weak signal; 3 lit LEDs: Normal signal; 4 lit LEDs: Strong signal. Power LED Off: No power. On: Device is ready.

[Page 7: Specifications](#)

USIM Card LED Off: No USIM card is installed. On: A USIM card is installed properly. USIM card slot Install a USIM card into this slot to establish a WAN LTE connection. Power button On Off Press this button to power on or off the system. Power (DC-IN) port Insert the bundled AC adapter into this port and connect your router to a power source.

[Page 8: Positioning Your Router](#)

- Keep the device away from 802.11g or 20MHz-only Wi-Fi devices, 2.4GHz computer peripherals, Bluetooth devices, cordless phones, transformers, heavy-duty motors, fluorescent lights, microwave ovens, refrigerators, and other industrial equipment to prevent signal interference or loss.
- Always update to the latest firmware. Visit the ASUS website at <http://www.asus.com> to get the latest firmware updates.
- To ensure the best wireless signal, orient the two antennas as shown in the drawing below.

[Page 9: Setup Requirements](#)

1.5 Setup requirements To set up your wireless network, you need to meet the following requirements: • A mini SIM/USIM card with WCDMA and LTE subscription Mini SIM card Micro SIM card Nano SIM card NOTE: A standard SIM/USIM card is a standard mini SIM card. IMPORTANT! Ensure that your SIM/USIM card is subscribed to WCDMA and LTE services.

[Page 10: Router Setup](#)

NOTES: • If your computer does not have built-in wireless capabilities, you may install an IEEE 802.11 b/g/n WLAN adapter to your computer to connect to the network. • Do not plug a phone jack into an RJ-45 port. This may damage the Wireless LTE Router. • The Ethernet RJ-45 cables that will be used to connect the network devices should not exceed 100 meters. 1.6 Router Setup WARNING! • Avoid installing your Wireless LTE Router during an electrical storm. There may be a remote risk of electrical shock caused by lightning. • Do not try to disassemble or reassemble this device. Tampering with your Wireless LTE Router might void its warranty.

[Page 11](#) 1. Enable the Wi-Fi function on your wireless client for it to automatically scan for wireless networks. 2. Select the wireless network named "ASUS", which is the default wireless network name (SSID) of ASUS wireless routers. 3. When prompted, key in the default password of the router, which can be found on the sticker at the back.

[Page 12: Getting Started](#)

Getting started 2.1 Logging into the Web GUI Your ASUS Wireless Router comes with an intuitive web graphical user interface (GUI) that allows you to easily configure its various features through a web browser such as Internet Explorer, Firefox, Safari, or Google Chrome.

[Page 13: Quick Internet Setup \(QIS\) With Auto-Detection](#)

2.2 Quick Internet Setup (QIS) with Auto- detection The Quick Internet Setup (QIS) function guides you in quickly setting up your Internet connection. NOTE: When setting the Internet connection for the first time, press the Reset button on your wireless router to reset it to its factory default settings.

[Page 14](#) 3. Change the password for the wireless router. When done, click Next. NOTE: We recommend that you assign a unique administrator password to protect your network from malicious attacks. 4. The wireless router automatically detects and applies the APN settings. When done, click WLAN Setting to configure the wireless LAN settings.

[Page 15](#) 6. Your Internet and wireless settings are displayed. Click Next to continue. 7. If the wizard failed to apply the APN settings or the PIN code of the SIM card is required, you need to manually complete the mobile broadband connection. Key in the necessary APN settings and the PIN code of your SIM card.

[Page 16: Configuring The General Settings](#)

Configuring the General settings 3.1 Using the Network Map Network Map allows you to check the internet connection status, configure your network's security settings, and manage your network clients. 3.2 SMS Short Message Service (SMS) is a text messaging service that allows you to send or receive messages from or on your wireless router.

[Page 17: New Sms](#)

3.2.1 New SMS This function allows you to send short messages from your wireless router. To send a new SMS message: 1. Enter the recipient's phone number. 2. Compose your message. 3. Click Transmit to send the message. To save a SMS draft: 1.

[Page 18: Inbox](#)

3.2.2 Inbox Inbox allows you to view the received short messages saved in your device. Click Read to read a message, or click Delete to delete a message. 3.2.3 Drafts All the message drafts are saved in the Wireless LTE Router and displayed here.

[Page 19: Configuring The Advanced Settings](#)

Configuring the Advanced Settings 4.1 Wireless The Wireless LTE Router operates as a wireless access point, allowing wireless device to connect to the Internet. The GUI allows you to configure the radio channel, Service Set Identifier (SSID), security and WPS settings. 4.1.1 General The General tab allows you to configure the basic wireless settings.

[Page 20](#) 3. Assign a unique name containing up to 32 characters for your SSID (Service Set Identifier) or network name to identify your wireless network. Wi-Fi devices can identify and connect to the wireless network via your assigned SSID. The SSIDs on the information banner are updated once new SSIDs are saved to the settings.

[Page 21](#) 7. Select the operating channel for your wireless router. Select Auto to allow the wireless router to automatically select the channel that has the minimum interference. 8. Extension Channel: The extension channel that you can assign is based on the following: • When Bandwidth is set to 20MHz, the extension channel is disabled.

[Page 22: Radius Setting](#)

4.1.2 RADIUS Setting RADIUS (Remote Authentication Dial In User Service) Setting provides an extra layer of security when you choose WPA- Enterprise, WPA2-Enterprise, or RADIUS with 802.1x as your Authentication Mode. To configure the wireless RADIUS settings: 1. From the navigation panel, go to Advanced Settings > Wireless >...

[Page 23: Wireless Mac Filter](#)

4.1.3 Wireless MAC Filter Wireless MAC filter provides control over packets transmitted to a specified MAC (Media Access Control) address on your wireless network. To set up the Wireless MAC filter: 1. From the navigation panel, go to Advanced Settings > Wireless >...

[Page 24: Wps \(Wi-Fi Protected Setup\)](#)

4.1.4 WPS (Wi-Fi Protected Setup) WPS (Wi-Fi Protected Setup) allows you easy create a secure wireless network via the PIN code or Push Button Control (PBC) feature. Scroll down to display other items:...

[Page 25](#) To create a secure network using WPS: 1. From the navigation panel, go to Advanced Settings > Wireless > WPS tab. 2. In the Enable WPS field, select Enabled, then click Apply. 3. Set up WPS via the PIN code or PBC (Push Button Control) method.

[Page 26: Lan](#)

4.2 LAN 4.2.1 LAN Settings The LAN settings screen allows you to configure the local network IP address of the LTE Router and modify the DHCP server settings. To modify the LAN settings: 1. From the navigation panel, go to Advanced Settings > LAN > LAN tab.

[Page 27](#) NOTES: • We recommend that you use an IP address format of 192.168.1.xxx (where xxx can be any number between 2 and 254) when specifying an IP address range. • An IP Pool Starting Address should not be greater than the IP Pool Ending Address. 6. In the Lease Time dropdown list, select the schedule when an IP address will expire. Once it reaches this specified schedule, the DHCP server will then assign a new IP address.

[Page 28: Dhcp Client List](#)

4.2.2 DHCP Client List The DHCP Client List screen displays the DHCP client information. Click Refresh to update the connected client list. 4.3 WAN The LTE Router is implemented with an LTE (Long Term Evolution) module. LTE network offers wide channel bandwidth from 5MHz to 20 MHz, and fast mobile data rates of up to 50 Mbps uplink and 100 Mbps downlink.

[Page 29: Wan Type - Lte/Umts](#)

• WAN Type - LTE/UMTS a. Set up the following: • PIN Code: Enter the 3G/4G provider's PIN code. • Connection Type: This field allows you to define your connection policies. We recommend you select Auto- Triggered by traffic if you are not using all-you-can-eat data service.

[Page 30: Wan Type - Wan](#)

• Username / Password: Enter the username and password provided by the 3G/4G network carrier. • Dial on demand (with idle timeout timer): Enter the time (in minutes) when the router goes into the sleep mode when there is no activity in the network. • MTU: Sets the MTU (Maximum Transmission Unit).

[Page 31](#) a. Configure the following settings below. When done, click Apply. • WAN Connection Type: Choose your Internet Service Provider type. The choices are Automatic IP, PPPoE or fixed IP. Consult your ISP if the router is unable to obtain a valid IP address or if you are unsure the WAN connection type.

[Page 32: Mobile Connection Status](#)

• Clone or change the MAC address of the ASUS wireless router to match the MAC address of the previous networking device recognized by the ISP. 4.3.2 Mobile Connection Status The Mobile Connection Status screen displays the detailed Mobile Broadband connection status.

[Page 33](#) Scroll down to display other items: To configure the Data Usage settings: 1. From the navigation panel, go to Advanced Settings > WAN > Mobile Connection Status tab. 2. Data traffic limit: Select Enable to allow setting a limit for your Internet traffic usage.

[Page 34: Mobile Connection Scan](#)

4.3.3 Mobile Connection Scan To select your preferred mobile broadband connection: 1. On the Preferred network type field, select a UMTS frequency band. 2. Click Scan to show all the available mobile networks. 3. Select a mobile network and click Apply to connect to it. NOTES: • The LTE Router can detect your ISP based on the IMSI information of your SIM card.

[Page 35: Upnp](#)

4.3.4 UPnP UPnP (Universal Plug and Play) allows several devices (such as routers, televisions, stereo systems, game consoles, and cellular phones), to be controlled via an IP-based network

with or without a central control through a gateway. UPnP connects PCs of all form factors, providing a seamless network for remote configuration and data transfer.

[Page 36: Virtual Server / Port Forwarding](#)

4.3.5 Virtual Server / Port Forwarding Virtual Server is a method to direct network traffic from the Internet to a specific port or a specific range of ports to a device or number of devices on your local network. If you configure the LTE Router as a virtual server, remote users accessing services such as web or FTP at your local site via public IP addresses can be automatically redirected to local servers configured with private IP addresses.

[Page 37: Dmz](#)

4.3.6 DMZ Virtual DMZ exposes one client to the Internet, allowing this client to receive all inbound packets directed to your Local Area Network. Inbound traffic from the Internet is usually discarded and routed to a specific client only if port forwarding or a port trigger has been configured on the network.

[Page 38](#) To set up DMZ: 1. From the navigation panel, go to Advanced Settings > WAN > DMZ tab. 2. Configure the setting below. When done, click Apply. • Enable DMZ: Key in the last digit of the client's LAN IP address that will provide the DMZ service and be exposed on the Internet.

[Page 39: Ddns](#)

4.3.7 DDNS Setting up DDNS (Dynamic Domain Name System) allows you to access the router outside your network through the provided DDNS service. The DDNS service, which maps a domain name to a static or dynamic IP address, is powered by DynDNS.org. With a DDNS connection, you can host a website, an email server, an FTP site, and other Internet apps in your local area network even when using dynamic IP addresses for the domain names.

[Page 40: Firewall](#)

4.4 Firewall 4.4.1 General The wireless router can serve as a hardware firewall for your network. Set up the firewall to protect your network from malicious attacks such as Denial of Service (DoS) attacks. DoS attacks disable a device or network to deny users access to network resources.

[Page 41: Mac Filter](#)

4.4.2 MAC Filter When MAC Filter is enabled, only those MAC addresses in the list are allowed or denied access to your network. To set up a MAC filter: 1. From the navigation panel, go to Advanced Settings > Firewall > MAC Filter tab. 2.

[Page 42: Intrusion Detection](#)

4.4.3 Intrusion Detection Intrusion Detection blocks and prevents malicious attacks or intrusions from harming your network and the devices connected to it. Your wireless router prevents DoS attacks such as IP Spoofing, Ping of Death, IP with Zero Length, Smurf Attack, UDP port loopback, Snork Attack, TCP null scan, and TCP SYN flooding.

[Page 43: Access Control](#)

4.4.4 Access Control Access Control allows you to specify the clients or services that are allowed or blocked to the WAN port service. The access control rules are executed with the specified schedules. To set up a network service filter: 1.

[Page 44](#) 4. Enter a description of the clients. 5. Enter the clients' IP range to block the specified clients. 6. Define a scheduling rule. You can select Always Blocking or specify the day and time when the filters will be active. 7.

[Page 45: Url Filter](#)

4.4.5 URL Filter You can specify keywords or web addresses to prevent access to specific URLs. NOTE: The URL Filter is based on a DNS query. If a network client has already accessed a website such as <http://www.abcxxx.com>, then the website will not be blocked (a DNS cache in the system stores previously visited websites).

[Page 46: Schedule Rule](#)

4.4.6 Schedule Rule Each access control rule can be activated at a pre-defined scheduled time. You can define the schedule rule in the Schedule Rule page, and apply the rule in the Access Control page.

[Page 47: Administration](#)

4.5 Administration 4.5.1 System The System page allows you to configure your wireless router settings. To set up the System settings: 1. From the navigation panel, go to Advanced Settings > Administration > System tab. 2. You can configure the following settings: • Administrator Password: You can change the password and login name for the wireless router by entering a new name and password.

[Page 48: Firmware Upgrade](#)

3. Click Apply. 4.5.2 Firmware Upgrade NOTE: Download the latest firmware from the ASUS website at <http://www.asus.com> To upgrade the firmware: 1. From the navigation panel, go to Advanced Settings >...

[Page 49: System Log](#)

4.6 System Log System Log contains your recorded network activities. NOTE: System log resets when the router is rebooted or powered off. To view your system log: 1. From the navigation panel, go to Advanced Settings > System Log. 2. You can view your network activities in this page: 3.

[Page 50: Network Tools](#)

4.7.1 Ping A ping test determines the latency (communication delay) between ASUS router and another server (such as www.google.com) on a network by sending multiple ICMP packets and listening for the replies. Enter a host name or IP address to perform a Ping.

[Page 51: Traceroute](#)

4.7.2 Traceroute The Traceroute test (also known as trace route or tracert) will trace the route that test packets take from one server destination to another. The test results provide a list of hosts or IP addresses showing the route taken by the test packets starting from the selected monitoring location to the destination Domain or IP (such as www.google.com) .

[Page 52: Wan Capture](#)

4.7.3 WAN Capture The WAN Capture allows you to capture all packets that pass through the Mobile Broadband Network. To capture your router's WAN packets: 1. To start capturing the packets, click Start. The browser starts to download the pktDump.cap file to your computer. 2.

[Page 53: Frequently Asked Questions \(Faqs\)](#)

Frequently Asked Questions (FAQs) Cannot access the router GUI using a web browser. • Hardware Configuration: • If your computer is wired, check the Ethernet cable connection and LED status. • Failed to log in: • Ensure that you are using the correct login information. The default factory login name and password is "admin/admin". Ensure that the Caps Lock key is disabled when you enter the login information.

[Page 54](#) The client cannot establish a wireless connection with the router. • Out of Range: • Move the router closer to the wireless client. • Try to adjust antennas of the router to the best direction as described in section 1.4 Positioning your router. • DHCP server has been disabled: • Launch the web GUI. Go to General > Network Map > Clients and search for the device that you want to connect to the router.

[Page 55](#) • Go to Administration > Restore/Save/Upload Setting, and click Restore. The following are the factory default settings: User Name: admin Password: admin Enable DHCP: IP address: 192.168.1.1 Domain Name: (Blank) Subnet Mask: 255.255.255.0 DNS Server 1: 192.168.1.1 DNS Server 2: (Blank) SSID (2.4GHz): ASUS...

[Page 56: Appendices](#)

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>.

www.3m.com/english/Takeback.htm for the detailed recycling information in different regions.

Page 57 Declaration of Conformity for R&TTE directive 1999/5/EC Essential requirements – Article 3 Protection requirements for health and safety – Article 3.1a Testing for electric safety according to EN 60950-1 has been conducted. These are considered relevant and sufficient. Protection requirements for electromagnetic compatibility –...

Page 58 Radio Frequency (RF) Exposure Information The radiated output power of the ASUS Wireless Device is below the Industry Canada (IC) radio frequency exposure limits. The ASUS Wireless Device should be used in such a manner such that the potential for human contact during normal operation is minimized.

Page 59 Son fonctionnement est soumis aux deux conditions suivantes: (1) cet appareil ne doit pas causer d'interférence et (2) cet appareil doit accepter toute interférence, notamment les interférences qui peuvent affecter son fonctionnement.

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[Page 69: Asus Contact Information](#)

+886228907698 Online support support.asus.com ASUS COMPUTER INTERNATIONAL (America)
Address 800 Corporate Way, Fremont, CA 94539, USA Telephone +15107393777 Fax
+15106084555 Website usa.asus.com Online support support.asus.com ASUS COMPUTER
GmbH (Germany and Austria) Address Harkort Str. 21-23, D-40880 Ratingen, Germany Support
Fax +49-2102-959931 Website asus.com/de Online contact eu-rma.asus.com/sales Technical
Support Telephone (Component) +49-2102-5789555 Telephone Germany
(System/Notebook/Eee/LCD)

[Page 70: Networks Global Hotline Information](#)

Slovak Republic 00421-232162621 08:00-17:00 Mon-Fri Czech Republic 00420-596766888
08:00-17:00 Mon-Fri Switzerland-German 0041-848111010 09:00-18:00 Mon-Fri Switzerland-
French 0041-848111014 09:00-18:00 Mon-Fri Switzerland-Italian 0041-848111012 09:00-18:00
Mon-Fri United Kingdom 0044-8448008340 09:00-17:00 Mon-Fri Ireland 0035-31890719918
09:00-17:00 Mon-Fri Russia and CIS 008-800-100-ASUS 09:00-18:00 Mon-Fri Ukraine
0038-0445457727 09:00-18:00 Mon-Fri...

[Page 71](#) Networks Global Hotline Information Region Country Hotline Numbers Service Hours
Australia 1300-278788 09:00-18:00 Mon-Fri New Zealand 0800-278788 09:00-18:00 Mon-Fri
Japan 09:00-18:00 Mon-Fri 0800-1232787 09:00-17:00 Sat-Sun 09:00-18:00 Mon-Fri
0081-473905630 (Non-Toll Free) 09:00-17:00 Sat-Sun Korea 0082-215666868 09:30-17:00
Mon-Fri Thailand 0066-24011717 09:00-18:00 Mon-Fri 1800-8525201 Singapore...

[Page 72](#) 00371-67408838 09:00-18:00 Mon-Fri Lithuania-Kaunas 00370-37329000
09:00-18:00 Mon-Fri Lithuania-Vilnius 00370-522101160 09:00-18:00 Mon-Fri NOTE: For more
information, visit the ASUS support site at: <http://support.asus.com> ASUSTeK Computer Inc.
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