



Asus 4G-AC68U User Manual

Dual-band wireless-ac1900 lte modem router

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User Guide

4G-AC68U

Dual-Band Wireless-AC1900 LTE Modem
Router

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Summary of Contents for Asus 4G-AC68U

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[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.

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[Page 7: Getting To Know Your Wireless Router](#)

Network cable (RJ-45) Quick Start Guide 2 x 3G/4G antennas NOTES: • If any of the items is damaged or missing, contact your retailer or ASUS for technical inquiries and support, Refer to the ASUS Support Hotline list at the back of this user manual. • Keep the original packaging material in case you would need future warranty services such as repair or replacement.

[Page 8: Your Wireless Router](#)

1.3 Your wireless router 3G/4G signal strength LED 1 lit LED: Weak signal 2 lit LEDs: Normal signal 3 lit LEDs: Strong signal Purple light for 3G connection, blue light for 4G connection WPS LED Off: WPS is not processing. Flashing quick: WPS is processing.

[Page 9](#) 5GHz Wi-Fi LED Off: No 5GHz signal. On: 5GHz wireless is ready. Flashing: Transmitting or receiving data via wireless connection. 2.4GHz Wi-Fi LED Off: No 2.4GHz signal. On: 2.4GHz wireless is ready. Flashing: Transmitting or receiving data via wireless connection. WAN (Internet) LED Off: No data activity or no physical connection.

[Page 10: Device Properties](#)

NOTES: • Use only the adapter that came with your package. Using other adapters may damage the device. • Ensure to insert the Micro SIM/USIM card into the card slot before powering on the router. 1.4 Device Properties Power Consumption: • Input: AC 100~240V / 50~60Hz, DC 19V /2.37A (EU) Input: AC 100~240V / 50~60Hz, DC 19V /3.42A (UK) • Maximum power consumption: 25.8 W • Average power consumption: 10.3 W • The average power consumption was determined at room temperature (23 °C to 27 °C) with the following load: • Active Mobile Broadband connection • Wireless LAN on; no devices are connected to the wireless • One network device is connected to a LAN port; no data...

[Page 11: Positioning Your Router](#)

For the best wireless signal transmission between the wireless router and the network devices connected to it, ensure that you: • Place the wireless LTE router near a window to receive the best quality for maximum wireless upstream performance with an LTE base station. • Keep the device away from metal obstructions and away from direct sunlight. • Place the router horizontally. • Do not place the Wireless LTE Router in a dusty or wet environment. • To prevent signal loss, 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. • Always update to the latest firmware. Visit the ASUS website at http://www.asus.com/Networking/4G-AC68U/HelpDesk_Download/ to get the latest firmware updates. • To ensure the best wireless signal, orient the antennas as shown in the drawing below.

[Page 12: Installing Your Router](#)

1.6 Installing your router 1.6.1 Prepare the setup requirements. To set up your wireless network, you need to meet the following requirements: • A Micro SIM/USIM card with WCDMA and LTE subscription IMPORTANT! Ensure that your Micro SIM/USIM card is subscribed to WCDMA and LTE services. Contact your mobile service provider about these services.

[Page 13: Set Up Your Lte Wireless Router](#)

1.6.2 Set up your LTE wireless router. Wall Power Outlet Power Computer a. Attach the two 3G/4G antennas. b. Insert the Micro SIM/USIM card into the Micro SIM/USIM card slot. When the Micro SIM/USIM card is properly installed, the Mobile Broadband LED lights up and flashes slowly after power on.

[Page 14](#) 2. Select the wireless network named “ASUS_XX_2G” or “ASUS_XX_5G”, which is the default wireless network name (SSID) of ASUS wireless routers. NOTE: XX refers to the last two digits of 2.4GHz MAC address. You can find it on the label on the back of your router.

[Page 15: Getting Started](#)

Google Chrome, or Safari. NOTE: If QIS does not launch automatically, enter <http://router.asus.com> in the address bar and refresh the browser again. 3. Log into the Web GUI. The QIS page launches automatically. By default, the login username and password for your router's Web GUI is “admin”.

[Page 16](#) 4. Assign your router login name and password and click Next. You need this login name and password to log into ASUS router to view or change the router settings. You can take note of your router login name and password for future use.

[Page 17](#) for PPPoE, PPTP, and L2TP for Static IP 6. If a 3G/4G network is connected, the wireless router's Quick Internet Setup (QIS) feature automatically detects and applies the APN setting to connect to the wireless base station. If the QIS wizard failed to automatically apply the APN setting or the SIM card prompts for a PIN code, set up the APN setting manually.

[Page 18](#) 7. The dual WAN connection configuration result is displayed. Click Next to continue. Mobile Broadband Connection is configured successfully Ethernet WAN Connection is configured successfully 8. If both WAN are configured, go to next step to configure the wireless LAN settings.

[Page 19](#) 9. Assign the network name (SSID) and security key for your 2.4GHz wireless connection. Click Apply when done. 10. Your Internet and wireless settings are displayed. Click Next to complete the QIS process. 11. The 3G/4G signal strength LED lights up and is steady after completing the 3G/4G network settings via QIS, indicating a successful Internet connection.

[Page 20: 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.

[Page 21: Setting Up The Wireless Security Settings](#)

3.1.1 Setting up the wireless security settings To protect your wireless network from unauthorized access, you need to configure its security settings. To set up the wireless security settings: 1. From the navigation panel, go to General > Network Map. 2. On the Network Map screen, click System status icon You can configure the wireless security settings such as wireless name(SSID), authentication method, and encryption settings. 2.4GHz security settings 5GHz security settings...

[Page 22: System Status](#)

3. On the Wireless name (SSID) field, key in a unique name for your wireless network. 4. From the Authentication Method dropdown list, select the authentication method for your wireless network. If you select WPA-Personal or WPA-2 Personal as the authentication method, key in the WPA-PSK key or security passkey. IMPORTANT! The IEEE 802.11n/ac standard prohibits using Low Throughput with WEP or WPA-TKIP as the unicast cipher. If you use these encryption methods, your data rate will drop to IEEE 802.11g 54Mbps connection.

[Page 23: Managing Your Network Clients](#)

3.1.3 Managing your network clients To manage your network clients: 1. From the navigation panel, go to General > Network Map tab. 2. On the Network Map screen, select the Client Status icon to display your network client's information.

[Page 24](#) 3. On Client status table, click the device icon to show the detailed profile of the device. To block a client's access to your network, select the client and click block icon...

[Page 25: Monitoring The Internet Status](#)

3.1.4 Monitoring the Internet Status To monitor your Internet status: 1. From the navigation panel, go to General > Network Map tab. 2. On the Network Map screen, select the Internet icon to display your Internet configuration. You can also select Mobile Broadband icon to display Mobile Broadband configuration.

[Page 26: Monitoring Your Usb Device](#)

3.1.5 Monitoring your USB device The ASUS wireless router provides one USB port for connecting USB devices or USB printer to allow you to share files and printer with clients in your network. To monitor your USB device: 1. From the navigation panel, go to General > Network Map tab.

[Page 27: Guest Network](#)

3.2 Guest Network The Guest Network provides temporary visitors with Internet connectivity via access to separate SSIDs or networks without providing access to your private network. To create a guest network: 1. From the navigation panel, go to General > Guest Network. 2.

[Page 28](#) 9. Select Disable or Enable on the Access Intranet item. 10. Select No or Yes on MAC Filter item for your guest network. 11. When done, click Apply.

[Page 29: Aiprotection](#)

3.3 AiProtection AiProtection provides real-time monitoring that detects malware, spyware, and unwanted access. It also filters unwanted websites and apps and allows you to schedule a time that a connected device is able to access the Internet.

[Page 30: Network Protection](#)

3.3.1 Network Protection Network Protection prevents network exploits and secures your network from unwanted access. Configuring Network Protection To configure Network Protection: 1. From the navigation panel, go to General > AiProtection. 2. From the AiProtection main page, click on Network Protection.

[Page 31](#) IMPORTANT! Items marked as Yes on the Router Security Assessment page is considered to be at a safe status. Items marked as No, Weak, or Very Weak is highly recommended to be configured accordingly. 4. (Optional) From the Router Security Assessment page, manually configure the items marked as No, Weak, or Very .

[Page 32](#) Malicious Sites Blocking This feature restricts access to known malicious websites in the cloud database for an always-up-to-date protection. NOTE: This function is automatically enabled if you run the Router Weakness Scan. To enable Malicious Sites Blocking: 1. From the navigation panel, go to General > AiProtection. 2.

[Page 33](#) Infected Device Prevention and Blocking This feature prevents infected devices from communicating personal information or infected status to external parties. NOTE: This function is automatically enabled if you run the Router Weakness Scan. To enable Vulnerability protection: 1. From the navigation panel, go to General > AiProtection. 2.

[Page 34: Setting Up Parental Controls](#)

3.3.2 Setting up Parental Controls Parental Control allows you to control the Internet access time or set the time limit for a client's network usage. To go to the Parental Controls main page: 1. From the navigation panel, go to General > AiProtection. 2.

[Page 35](#) Web & Apps Filters Web & Apps Filters is a feature of Parental Controls that allows you to block access to unwanted web sites or applications. To configure Web & Apps Filters: 1. From the navigation panel, go to General > AiProtection. 2.

[Page 36](#) Time Scheduling Time Scheduling allows you to set the time limit for a client's network usage. NOTE: Ensure that your system time is synchronized with the NTP server. To configure Time Scheduling: 1. From the navigation panel, go to General > AiProtection >

Parental Controls >...

[Page 37](#) 3. From the Clients Name column, select or key in the client's name from the drop down list box. NOTE: You may also key in the client's MAC address in the Client MAC Address column. Ensure that the client name does not contain special characters or spaces as these may cause the router to function abnormally.

[Page 38: Adaptive Qos](#)

3.4 Adaptive QoS 3.4.1 Bandwidth Monitor This feature allows you to monitor the bandwidth of WAN/LAN and displays the upload and download speed of your connection. Apps analysis To enable Apps analysis: From the Bandwidth Monitor tab, go to the Apps Analysis pane, click ON.

[Page 39: Qos](#)

3.4.2 QoS This feature ensures bandwidth for prioritized tasks and applications. To enable the QoS function: 1. From the navigation panel, go to General > Adaptive QoS> QoS tab. 2. From the Enable Smart QoS pane, click ON. 3. Fill in the upload and download bandwidth fields. NOTE: Get the bandwidth information from your ISP.

[Page 40: Web History](#)

3.4.3 Web History This feature displays the history and details of the sites or URLs that the client visited. To view the Web History: 1. From the navigation panel, go to General > Adaptive QoS> Web History tab. 2. (Optional) Click Refresh to clear the list.

[Page 41: Traffic Analyzer](#)

3.5 Traffic Analyzer The traffic monitor feature allows you to access the bandwidth usage and speed of your Internet, wired, or wireless networks. It allows you to monitor network traffic in real-time or on a daily basis. It also offers an option to display the network traffic within the last 24 hours.

[Page 42: Using The Usb Application](#)

USB hard disk or USB flash drive, in the USB 2.0 port on the rear panel of your wireless router. Ensure that the USB storage device is formatted and partitioned properly. Refer to the ASUS website at <http://event.asus.com/2009/networks/disksupport/> for the file system support table.

[Page 43](#) 3. Select the access rights that you want to assign to the clients accessing your shared data. 4. Create your domain name via the ASUS DDNS services, read the Terms of Service and then select I will use the service and accept the Terms of service and key in your domain name.

[Page 44](#) You can also select Skip ASUS DDNS settings then click Next to skip the DDNS setting. 5. Click Finish to complete the setting. 6. To access the FTP site that you created, launch a web browser or a third-party FTP client utility and key in the ftp link (ftp://<domain name>.asuscomm.com) you have previously...

[Page 45: Using Servers Center](#)

Servers Center. Using Media Server Your wireless router allows DLNA-supported devices to access multimedia files from the USB disk connected to your wireless router. NOTE: Before using the DLNA Media Server function, connect your device to the 4G-AC68U's network.

[Page 46](#) To launch the Media Server setting page, go to General > USB application > Media Services and Servers > Media Servers tab. Refer to the following for the descriptions of the fields: • Enable iTunes Server: Select ON/OFF to enable/disable the iTunes Server.

[Page 47](#) 2. Follow the steps below to add, delete, or modify an account. To create a new account: a) Click to add new account. b) In the Account and Password fields, key in the name and password of your network client. Retype the password to confirm.

[Page 48](#) 3. From the list of folders, select the type of access permission that you want to assign for specific folders: • R/W: Select this option to assign read/write access. • R: Select this option to assign read-only access. • No: Select this option if you do not want to share a specific file folder.

[Page 49](#) To use FTP Share service: Ensure that you have set up your FTP server through NOTE: AiDisk. For more details, refer to the section “3.6.1 Using AiDisk”. 1. From the navigation panel, click General > USB application > Media Services and Servers > FTP Share tab. 2.

[Page 50: Using Aicloud 2.0](#)

To use AiCloud: 1. From Google Play Store or Apple Store, download and install the ASUS AiCloud app to your smart device. 2. Connect your smart device to your network. Follow the instructions to complete the AiCloud setup process.

[Page 51: Cloud Disk](#)

1. Insert a USB storage device into the wireless router. 2. Turn on Cloud Disk. 3. Go to <https://router.asus.com> and enter the router login account and password. For better user experience, we recommend that you use Google Chrome or Firefox.

[Page 52: Smart Access](#)

3.7.2 Smart Access The Smart Access function allows you to easily access your home network via your router's domain name. NOTES: • You can create a domain name for your router with ASUS DDNS. For more details, refer to section 4.3.7 DDNS. • By default, AiCloud provides a secure HTTPS connection. Key in [https://\[yourASUSDDNSname\].asuscomm.com](https://[yourASUSDDNSname].asuscomm.com) for a very secure Cloud Disk and Smart Access usage.

[Page 53: Smart Sync](#)

- Download to USB Disk: Selecting Download to USB Disk allows you to replicate the remote files to the local folder on USB Disk.
- Upload to Cloud: Selecting Upload to Cloud allows you to replicate the local files to the remote folder on ASUS WebStorage.

[Page 54: Sync Server](#)

6. Click Apply to add the sync task . 3.7.4 Sync Server...

[Page 55](#) To use Sync Server: 1. From the navigation panel, click AiCloud 2.0 > Sync Server. 2. Enter Sync Server configuration on Invitation Generator to enable Smart Sync. 3. Send your friend the sync invitation. 4. After a invitation is generated, you can check the sync task on Sync List table .

[Page 57: Settings](#)

3.7.5 Settings AiCloud 2.0 allows you to define a access policy to prevent unauthorized access, such as dictionary attack. When a host try to access the AiCloud and exceed the defined Maximum number of failed login attempts in the defined duration, the AiCloud service will be disabled automatically.

[Page 58: Configuring The Advanced Settings](#)

Configuring the Advanced Settings 4.1 Wireless 4.1.1 General The General tab allows you to configure the basic wireless settings. To configure the basic wireless settings: 1. From the navigation panel, go to Advanced Settings > Wireless > General tab. 2. Configure wireless basic configuration for 2.4GHz or 5GHz frequency band.

[Page 59](#) 4. In the Hide SSID field, select Yes to prevent wireless devices from detecting your SSID. When this function is enabled, you would need to enter the SSID manually on the wireless device to access the wireless network. 5. In the Wireless Mode field, select any of these wireless mode options to determine the types of wireless devices that can connect to your wireless router: • Auto: Select Auto to allow 802.11ac, 802.11n, 802.11g,...

[Page 60: Wps](#)

- Open System: This option provides no security.
- W PA2-Personal / WPA Auto-Personal: This option provides strong security. You can use either WPA2- Personal (with AES) or WPA Auto-Personal (with AES or TKIP + AES). If you select this option, you must enter the WPA Pre-Shared Key (network key).

[Page 61](#) To enable WPS on your wireless network: 1. From the navigation panel, go to Advanced Settings > Wireless > WPS tab. 2. In the Enable WPS field, move the slider to ON. 3.

WPS uses 2.4GHz and 5GHz radio concurrently. 4.

[Page 62: Wds](#)

ASUS wireless router. It can also be considered as a wireless repeater where your ASUS wireless router communicates with another access point and other wireless devices.

[Page 63](#) Access Point. • Any Access Point added to the list should be on the same Control Channel and the same fixed Channel bandwidth as the local ASUS wireless router. You can modify the Control Channel from Advanced Settings > Wireless > General tab.

[Page 64: Wireless Mac Filter](#)

4.1.4 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 65: Radius Setting](#)

4.1.5 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 set up the wireless RADIUS settings: 1. Ensure that the wireless router's authentication mode is set to WPA-Enterprise or WPA2-Enterprise.

[Page 66: Professional](#)

4.1.6 Professional The Professional screen provides advanced configuration options. NOTE: We recommend that you use the default values on this page. In the Professional Settings screen, you can configure the following: • Frequency: Select the frequency band that the professional settings will be applied to.

[Page 67](#) • Enable wireless scheduler: Select Yes to enable wireless networking by the following schedule rules. Select No to disable the schedule rules. • Date to Enable Radio (weekdays): You can specify which days of the week wireless networking is enabled. • Time of Day to Enable Radio: You can specify a time range when wireless networking is enabled during the week.

[Page 68](#) • Preamble Type: Preamble Type defines the length of time that the router spent for CRC (Cyclic Redundancy Check). CRC is a method of detecting errors during data transmission. Select Short for a busy wireless network with high network traffic. Select Long if your wireless network is composed of older or legacy wireless devices.

[Page 69: Lan](#)

4.2 LAN 4.2.1 LAN IP The LAN IP screen allows you to modify the LAN IP settings of your wireless router. NOTE: Any changes to the LAN IP address will be reflected on your DHCP settings. To modify the LAN IP settings: 1.

[Page 70: Dhcp Server](#)

4.2.2 DHCP Server Your wireless router uses DHCP to assign IP addresses automatically on your network. You can specify the IP address range and lease time for the clients on your network. To configure the DHCP server: 1. From the navigation panel, go to Advanced Settings > LAN >...

[Page 71](#) 5. In the IP Pool Ending Address field, key in the ending IP address. 6. In the Lease Time field, specify in seconds when an assigned IP address will expire. Once it reaches this time limit, the DHCP server will then assign a new IP address. 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...

[Page 72: Route](#)

4.2.3 Route If your network makes use of more than one wireless router, you can configure a routing table to share the same Internet service. NOTE: We recommend that you do not change the default route settings unless you have advanced knowledge of routing tables. To configure the LAN Routing table: 1.

[Page 73: Iptv](#)

4.2.4 IPTV The wireless router supports connection to IPTV services through an ISP or a LAN. The IPTV tab provides the configuration settings needed to set up IPTV, VoIP, multicasting, and UDP for your service. Contact your ISP for specific information regarding your service.

[Page 74: Wan](#)

4.3 WAN 4.3.1 Internet Connection The Internet Connection screen allows you to configure the settings of various WAN connection types. 4.3.1.1 WAN To configure the WAN connection settings: 1. From the navigation panel, go to Advanced Settings > WAN > Internet Connection tab. 2.

[Page 75](#) Enable WAN: Select Yes to allow the router Internet access. • Select No to disable Internet access. Enable NAT: NAT (Network Address Translation) is a system • where one public IP (WAN IP) is used to provide Internet access to network clients with a private IP address in a LAN. The private IP address of each network client is saved in a NAT table and is used to route incoming data packets.

[Page 76](#) • interval settings to avoid overloading the DHCP server. 4.3.1.2 Mobile broadband 4G-AC68U has built in 3G/4G modem that allows you to use a Mobile Broadband connection for Internet access. To set up your Mobile broadband Internet access: 1. From the navigation panel, go to Advanced Settings > WAN >...

[Page 77](#) 4. Set up the following: • Location: Select your 3G/4G service provider's location from the dropdown list. • ISP: Select your Internet Service Provider (ISP) from the dropdown list. • APN (Access Point Name) service (optional): Contact your 3G/4G service provider for detailed information. • Dial Number: The 3G/4G provider's access number • PIN code: Enter the 3G/4G provider's PIN code for connection on SIM PIN Management if the SIM card is...

[Page 78](#) • Username / Password: Enter the username and password that your 3G/4G network provider has provided. • Idle Time: Enter the time (in minutes) when the router goes into sleep mode when there is no activity in the network. Internet Connection Configuration To configure your mobile broadband connection: 1.

[Page 79](#) • 3G/4G: Select 3G/4G to allow the wireless router to automatically connect to a 3G or 4G network. • 4G only: Select this option to automatically connect the wireless router to a 4G network only. • 3G only: Select this option to automatically connect the wireless router to a 3G network only.

[Page 80](#) Traffic Limitation To configure the Data Usage settings: 1. Data usage: Show the data usage. 2. Cycle Start Day: Select the day you wish the data usage to begin to accumulate. The data usage will be reset at the end of each cycle.

[Page 81](#) Configure PIN Code Enter PIN code if SIM card is required you to enter a PIN Code before apply APN connection. You can also click Modify button to change PIN code when PIN code authentication is enable.

[Page 82](#) Mobile Connection Status To find Mobile broadband Information: 1. Click to find the detail information. 2. The Mobile Connection Status screen displays the detailed Mobile Broadband connection status.

[Page 83: Ipv6 \(Internet Settings\)](#)

4.3.2 IPv6 (Internet Settings) This wireless router supports IPv6 addressing, a system that supports more IP addresses. This standard is not yet widely available. Contact your ISP if your Internet service supports IPv6. To set up IPv6: 1. From the navigation panel, go to Advanced Settings > IPv6. 2.

[Page 84: Dual Wan](#)

4.3.3 Dual WAN Your ASUS wireless router provides dual WAN support. You can set the dual WAN feature to any of these two modes: • Failover Mode: Select this mode to use the secondary WAN as the backup network access.

[Page 85: Port Trigger](#)

the ping test counter and getting no response from the target IP address. • Enable User-defined Target: Select Yes when you want to manually define the target IP address or FQDN (Fully Qualified Domain Name) for the ping test packet. 4.3.4 Port Trigger Port range triggering opens a predetermined incoming port for a limited period of time whenever a client on the local area network...

[Page 86](#) 2. On the Enable Port Trigger field, tick Yes. 3. On the Well-Known Applications field, select the popular games and web services to add to the Port Trigger List. 4. On the Trigger Port List table, key in the following information: • Description: Enter a short name or description for the service.

[Page 87: Virtual Server/Port Forwarding](#)

Forwarding on your router allows PCs outside the network to access specific services provided by a PC in your network. NOTE: When port forwarding is enabled, the ASUS router blocks unsolicited inbound traffic from the Internet and only allows replies from outbound requests from the LAN.

[Page 88](#) 3. On the Famous Server List field, select the type of service you want to access. 4. On the Famous Game List field, select the popular game that you want to access. This item lists the port required for your selected popular online game to work properly.

[Page 89](#) • You will need a client outside your LAN but has Internet access (referred to as "Internet client"). This client should not be connected to the ASUS router. • On the Internet client, use the router's WAN IP to access the server.

[Page 90: 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 91: Ddns](#)

Server and Host Name: Choose ASUS DDNS or other DDNS. • If you want to use ASUS DDNS, fill in the Host Name in the format of xxx.asuscomm.com (xxx is your host name). If you want to use a different DDNS service, click FREE TRIAL •...

[Page 92: Nat Passthrough](#)

4.3.8 NAT Passthrough NAT Passthrough allows a Virtual Private Network (VPN) connection to pass through the router to the network clients. PPTP Passthrough, L2TP Passthrough, IPsec Passthrough and RTSP Passthrough are enabled by default. To enable / disable the NAT Passthrough settings: 1.

[Page 93: Ipv6](#)

4.4 IPv6 This wireless router supports IPv6 addressing, a system that supports more IP addresses. This standard is not yet widely available. Contact your ISP if your Internet service supports IPv6. To set up IPv6: 1. From the navigation panel, go to Advanced Settings > IPv6. 2.

[Page 94: Vpn Server](#)

4.5 VPN Server VPN (Virtual Private Network) provides a secure communication to a remote computer or remote network using a public network such as the Internet. NOTE: Before setting up a VPN connection, you would need the IP address or domain name of the VPN server you are trying to access. To set up access to a VPN server: 1.

[Page 95: Firewall](#)

4.6 Firewall The wireless router can serve as a hardware firewall for your network. NOTE: The Firewall feature is enabled by default. 4.6.1 General To set up basic Firewall settings: 1. From the navigation panel, go to Advanced Settings > Firewall >...

[Page 96: Keyword Filter](#)

To set up a URL filter: 1. From the navigation panel, go to Advanced Settings > Firewall > URL Filter tab. 2. On the Enable URL Filter field, select Enabled. 3. Enter a URL and click the button. 4. Click Apply. 4.6.3 Keyword filter Keyword filter blocks access to webpages containing specified keywords. To set up a keyword filter:...

[Page 97: Ipv6 Firewall](#)

Destination IP, Port Range, and Protocol. Click the button. 6. Click Apply. 4.6.5 IPv6 Firewall By default, your ASUS wireless router blocks all unsolicited incoming traffic. The IPv6 Firewall function allows incoming traffic coming from specified services to go through your network.

[Page 98: Administration](#)

4.7 Administration 4.7.1 Operation Mode The Operation Mode page allows you to select the appropriate mode for your network. To set up the operating mode: 1. From the navigation panel, go to Advanced Settings > Administration > Operation Mode tab. 2.

[Page 99: System](#)

3. Click Apply. NOTE: The router will reboot when you change the modes. 4.7.2 System The System page allows you to configure your wireless router settings.

[Page 100](#) 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: • Change router login password: You can change the password and login name for the wireless router by entering a new name and password.

[Page 101: Firmware Upgrade](#)

4.7.3 Firmware Upgrade http://www.asus.com/Networking/4G-AC68U/HelpDesk_Download/ NOTE: Download the latest firmware from the ASUS website at www.asus.com/Networking/4G-AC68U/HelpDesk_Download/ To upgrade the firmware: 1. From the navigation panel, go to Advanced Settings > Administration > Firmware Upgrade tab. 2. In the New Firmware File field, click Browse to locate the downloaded file.

[Page 102: Restore/Save/Upload Setting](#)

4.7.4 Restore/Save/Upload Setting To restore/save/upload wireless router settings: 1. From the navigation panel, go to Advanced Settings > Administration > Restore/Save/Upload Setting tab. 2. Select the tasks that you want to do: • To restore to the default factory settings, click Restore, and click OK in the confirmation message. • To save the current system settings, click Save, navigate to the folder where you intend to save the file and click Save.

[Page 103: System Log](#)

4.8 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 any of these tabs: • General Log • Wireless Log • DHCP Leases...

[Page 104: Ethernet Wan Mobile Broadband Function Support List](#)

4.9 Ethernet WAN Mobile Broadband Function Support List The wireless router supports wired WAN and Mobile broadband WAN in failover and failback modes. The Mobile broadband WAN is used both as Internet access and WAN backup interface. LAN, WAN, VPN, and Firewall supports different functions. See the comparison table below.

[Page 105](#) Applications AiCloud V (2) Access from WAN VPN Server V (2) FTP Server V (2) NOTES: V (1) : Mobile WAN has separated configuration on its configuration page V (2) : In most of using case, Internet service provide dispatch the mobile broadband a private IP, that will cause the WAN service failed to access from WAN side.

[Page 106: Utilities](#)

ASUS/LiveUpdate/Release/Wireless/Rescue.zip • Windows Printer Utility v1.0.5.5 at <http://dlcdnet.asus.com/pub/> ASUS/LiveUpdate/Release/Wireless/Printer.zip • The utilities are not supported on MAC OS. 5.1 Device Discovery Device Discovery is an ASUS WLAN utility that detects an ASUS wireless router device, and allows you to configure the wireless networking

settings. To launch the Device Discovery utility: • From your computer's desktop, click Start >...

[Page 107: Firmware Restoration](#)

5.2 Firmware Restoration Firmware Restoration is used on an ASUS Wireless Router that failed during its firmware upgrading process. It uploads the firmware that you specify. The process takes about three to four minutes. IMPORTANT: Launch the rescue mode on the router before using the Firmware Restoration utility.

[Page 108: Setting Up Your Printer Server](#)

5.3 Setting up your printer server 5.3.1 ASUS EZ Printer Sharing ASUS EZ Printing Sharing utility allows you to connect a USB printer to your wireless router's USB port and set up the print server. This allows your network clients to print and scan files...

[Page 109](#) To set up the EZ Printer sharing mode: 1. From the navigation panel, go to General > USB Application > Network Printer Server. 2. Click Download Now! to download the network printer utility. NOTE: Network printer utility is supported on Windows® XP, Windows® Vista, and Windows®...

[Page 110](#) 4. Follow the onscreen instructions to set up your hardware, then click Next. 5. Wait a few minutes for the initial setup to finish. Click Next. 6. Click Finish to complete the installation.

[Page 111](#) 7. Follow the Windows OS instructions to install the printer ® driver. 8. After the printer's driver installation is complete, network clients can now use the printer.

[Page 112: Using Lpr To Share Printer](#)

5.3.2 Using LPR to Share Printer You can share your printer with computers running on Windows® and MAC operating system using LPR/LPD (Line Printer Remote/ Line Printer Daemon). Sharing your LPR printer To share your LPR printer: 1. From the Windows® desktop, click Start > Devices and Printers >...

[Page 113](#) 3. Select Create a new port then set Type of Port to Standard TCP/IP Port. Click New Port. 4. In the Hostname or IP address field, key in the IP address of the wireless router then click Next.

[Page 114](#) 5. Select Custom then click Settings. 6. Set Protocol to LPR. In the Queue Name field, key in LPRServer then click OK to continue.

[Page 115](#) 7. Click Next to finish setting up the standard TCP/IP port. 8. Install the printer driver from the vendor-model list. If your printer is not in the list, click Have Disk to manually install the printer drivers from a CD-ROM or file.

[Page 116](#) 9. Click Next to accept the default name for the printer. 10. Click Finish to complete the installation.

[Page 117: Download Master](#)

5.4 Download Master Download Master is a utility that helps you download files even while your laptops or other devices are switched off. NOTE: You need a USB device connected to the wireless router to use Download Master. To use Download Master: 1.

[Page 118](#) 4. Select a download type such as BitTorrent, HTTP, or FTP. Provide a torrent file or a URL to begin downloading. NOTE: For details on Bit Torrent, refer to section "5.4.1 Configuring Bit Torrent download settings". 5. Use the navigation panel to configure the General settings. • You can define the download schedule by Selecting download Immediately or At Schedule Time.

[Page 119: Configuring Bit Torrent Download Settings](#)

5.4.1 Configuring Bit Torrent download settings To configure BitTorrent download settings: 1. From Download Master's navigation panel, click Bit Torrent to launch the Bit Torrent Setting page. 2. Select a specific port or use the default port for your download task. 3.

[Page 120: Nzb Settings](#)

5.4.2 NZB settings You can set up a USENET server to download NZB files. After entering USENET settings, click Apply. 5.4.3 eMule settings You can set up a eMule server to download file from eMule. After entering eMule settings, click Apply.

[Page 121](#) 1. Launch the Web GUI. Go to Advanced Settings > Administration > Firmware Upgrade tab. Click Check to verify if the latest firmware is available. 2. If the latest firmware is available, visit the ASUS global website at http://www.asus.com/Networking/4G-AC68U/HelpDesk_Download/ to download the latest firmware.

[Page 122](#) Check if your network settings are correct. • Each client on the network should have a valid IP address. ASUS recommends that you use the wireless router's DHCP server to assign IP addresses to computers on your network. • Some cable modem service providers require you to use the MAC address of the computer initially registered on the account.

[Page 123](#) 6.2 Frequently Asked Questions (FAQs) I cannot access the router GUI using a web browser • If your computer is wired, check the Ethernet cable connection and LED status as described in the previous section. • 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 124](#) The client cannot establish a wireless connection with the router. NOTE: If you are having issues connecting to 5Ghz network, make sure that your wireless device supports 5Ghz or features dual band capabilities. • 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.

[Page 125](#) Wired Internet is not accessible. • Check if your router can connect to your ISP's WAN IP address. To do this, launch the web GUI and go to General> Network Map, and check the Internet Status. • If your router cannot connect to your ISP's WAN IP address, try restarting your network as described in the section Restart your network in following sequence under Basic Troubleshooting.

[Page 126](#) • The wireless router is placed close to the window for a strong 3G/4G signal. • Port trigger, port forwarding, DDNS or DMZ service cannot work. Most ISPs provide a private IP address for a mobile broadband device. Hence some services, such as AiCloud, are not accessible. Please contact your ISP for assistance. You forgot the SSID (network name) or network password •...

[Page 127](#) How to restore the system to its default settings? Go to Administration > Restore/Save/Upload Setting, and • click Restore. The following are the factory default settings: User Name: admin Password: admin Enable DHCP: Yes (if WAN cable is plugged in) IP address: 192.168.1.1 Domain Name: (Blank)

[Page 128](#) Cannot access Web GUI Before configuring your wireless router, do the steps described in this section for your host computer and network clients. Disable the proxy server, if enabled. Windows ® 1. Click Start > Internet Explorer to launch the browser.

[Page 129](#) MAC OS 1. From your Safari browser, click Safari > Preferences > Advanced > Change Settings... 2. From the Network screen, deselect FTP Proxy and Web Proxy (HTTP). 3. Click Apply Now when done. NOTE: Refer to your browser's help feature for details on disabling the proxy server. Set the TCP/IP settings to automatically obtain an IP address.

[Page 130](#) 3. To obtain the IPv4 IP settings automatically, tick Obtain an IP address automatically. To obtain the IPv6 IP settings automatically, tick Obtain an IPv6 address automatically. 4. Click OK when done. MAC OS 1. Click the Apple icon located on the top left of your screen.

[Page 131](#) Disable the dial-up connection, if enabled. Windows ® 1. Click Start > Internet Explorer to launch the browser. 2. Click Tools > Internet options > Connections tab. 3. Tick Never dial a connection. 4. Click OK when done. NOTE: Refer to your browser's help feature for details on disabling the dial-up connection.

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[Page 133](#) 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...

[Page 134](#) ASUSTek Computer Inc. hereby declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. Full text of EU declaration of conformity is available at [https://www.asus.com/support/ Declaration of Conformity for Ecodesign directive 2009/125/ Testing for eco-design requirements according to \(EC\) No 1275/2008 and \(EU\) No 801/2013](https://www.asus.com/support/Declaration of Conformity for Ecodesign directive 2009/125/Testing for eco-design requirements according to (EC) No 1275/2008 and (EU) No 801/2013) has been conducted.

[Page 135](#) Safety Notices • Use this product in environments with ambient temperatures between 0°C(32°F) and 40°C(104°F). • Refer to the rating label on the bottom of your product and ensure your power adapter complies with this rating. • DO NOT place on uneven or unstable work surfaces. Seek servicing if the casing has been damaged. • DO NOT place or drop objects on top and do not shove any foreign objects into the product. • DO NOT expose to or use near liquids, rain, or moisture. DO NOT use the modem during electrical storms. •...

[Page 136](#) Radio Frequency (RF) Exposure Information 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 31 cm between the radiator & your body. Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé.

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