Actiontec Electronics, Inc.

760 North Mary Ave., Sunnyvale, CA 94085 USA

Wireless 11n VDSL2 Modem Gateway

Model #: F2250

Quick Start Guide

Version: 2.0 (Draft to be review)

Connect the Gateway to a Computer

1. Get F2250 from the Quick Start Kit and take it out of the bag.

2. Get the Power Cord from your DSL Quick Start Kit.

   (Power: External, 12V DC, 1.8A; Model: STD-12018U1)

3. Plug the smaller end of the Power Cord into the Black Port on the back of the Gateway.

4. Plug the larger end of the Power Cord into a Power Outlet.

5. Make sure the Power Switch is On.

6. Make sure the Power Light on the Gateway is SOLID Green.

7. Get the Yellow Cable

8. Plug one end of the Yellow Cable into any of the Yellow Ports on the back of the F2250.

9. Make sure that your computer is turned on. Then, plug the other end of the Yellow Cable into the Ethernet Port on the back of the computer. An Ethernet Port looks similar to a regular Phone Jack, but is slightly larger.

10. Make sure that 1 of the 4 Ethernet lights on the Gateway is Green. This may take a few moments.

11. Get the Black or Green DSL Cable from your DSL Quick Start Kit.

12. Plug one end of the DSL Cable into the Green Port located on the back of the Gateway.

13. Plug the other end of the DSL Cable into the Phone Jack closest to your Computer.

14. Make sure All Devices with the same phone number as your DSL Line has Phone Filters. This includes telephones, fax machines, caller ID boxes, satellite TV receivers, TiVo devices, and answering machines.

15. Make sure that that Power and DSL Lights are solid Green. This may take up to 60 seconds.

Note: If the DSL Light continues to blink, make sure you received notification from your DSL Internet Service Provider that your DSL service has been activated.

Configure the Gateway

1. Open a Web Browser (FireFox or Internet Explorer, for example). In the address bar, enter
   http://192.168.254.254 then press Enter on the keyboard.

Note: When you open your web browser you may get a page cannot be displayed error. This is normal and will not effect the instructions in step 1.

2. The GUI login username and password values can be found on the bottom sticker.

3. The "Main Menu" screen appears. Select Quick Setup

Note: If this screen does not appear, make sure our Ethernet port is configured for Dynamic IP.

4. Follow the wizard including entering the PPP username and password.

Configure Wireless Connection and Security

1. Click on Wireless Setup

2. Select a name for your wireless network and enter it in the "Network Name" field. Then click Apply.

3. Click on Wireless Security from the left column menu.

4. Select the type of wireless security that you want to use Actiontec recommends using WPA&WPA2. The following steps will show you how to enable WPA&WPA2 wireless security.

Note: All of your other wireless devices will need to support that same type of wireless security chosen in order to connect to your wireless network.

5. Enter in a password or pre-shared key. The key must be at least 8 characters long. Click Apply to continue.

Congratulations you are now connected!

Specifications

1. Features

- Supports Plug-and-Play installation.

- Compliant with full-rate ANSI T1.413 Issue 2 and ITU G.992.1 (G.dmt) standard.

- ADSL2+ / VDSL2 Bonded / Single Line Compliant

- DMT modulation and demodulation.

- Supports RFC1483 (bridged Ethernet over ATM) for LAN mode.

- Full-rate adaptive modem: max. Downstream rate is 8 Mbps, max. upstream rate is 1 Mbps.

- Compliant with IEEE 802.3 Ethernet standard.

- Supports 10BaseT and 100BaseT and Gigabit.

- 2.4 GHz IEEE 802.11n

- Supports 20/40 MHz channels with optional SGI

- Full IEEE 802.11 b/g/n legacy compatibility with enhanced performance

  Comprehensive wireless network security support that includes WPA, WPA2, and AES

  encryption/decryption coupled with TKIP and IEEE 802.1X support

- Support 802.11b and Draft STD 802.11g Modulation.

- 802.11b Data Rates: 11Mbit/s, 5.5Mbit/s, 2Mbit/s, 1Mbit/s

  (And 22Mbit/s with PBCC);

- 802.11g Data Rates: 6Mbit/s, 9Mbit/s, 12Mbit/s, 18Mbit/s, 24Mbit/s, 36Mbit/s, 48Mbit/s, 54Mbit/s.

- 802.11g Data Rates: 65Mbit/s, 130Mbit/s

2. Power requirements

- Operating voltage: +12V +/- 5% @ 1.8A max

- Power Dissipation Active: 12V DC @ xxx mA (typical)

3. Environmental Operating Range

- Operating temperature: 0º C to 40º C (32º F to 104º F)

- Humidity: 8-95%, non-condensing

4. Dimension and Weight

- 9.9" (L) x 5.7" (W) x 1.4" (H)   1.35 lb.

5. Certifications

- FCC Part 15 Class B, Class C and Part 68; Safety UL/cUL

General Regulatory and Compliance Notices

Important Safety Instructions

If applicable, when using telephone equipment, basic safety precautions should always be followed to reduce the risk of fire, electrical shock, and personal injury, including the following:

- Do not use this product near water – for example, near a bathtub, kitchen sink, laundry tub, or swimming pool, or in a wet basement;
- Avoid using a telephone (other than a cordless type) during an electrical storm, as there may be a remote risk of electrical shock due to lightning;
- Do not use the telephone to report a gas leak in the vicinity of the leak;
- Use only the power cord and batteries indicated in this manual;
- Do not dispose of batteries in fire, as they may explode – check with local codes for possible special disposal instructions.

Telephone Line Cord Caution
To reduce the risk of fire, use only No. 26 AWG or larger (e.g., 24 AWG) UL Listed or CSA Certified Telecommunication Line Cord.

Coaxial Cable

If applicable, the coaxial cable screen shield needs to be connected to the Earth at the building entrance per ANSI/NFPA 70, the National Electrical Code (NEC), in particular Section 820.93, "Grounding of Outer Conductive Shield of a Coaxial Cable," or in accordance with local regulation.

For Audio/Video Apparatus

This reminder is provided to call the CATV system installer's attention to Section 820.93 of the National Electric Code (NEC), which provides guidelines for proper grounding and, in particular, specifies that the coaxial cable shield shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Please heed all warnings; read, keep and follow all instructions. Do not use this apparatus near water and only clean with dry cloth.

Do not block any ventilation openings. Install in accordance with the manufacturer's instructions. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus including amplifiers that produce heat.

FCC Class B Equipment

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 and correct the interference by implementing one or more of the following measures:

- Reorient or relocate the receiving antenna;
- Increase the separation between the equipment and receiver;
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected;
- Consult the dealer or an experience radio or television technician for help.

Modifications

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by Actiontec Electronics, Inc, may void the user's authority to operate the equipment.

Declaration of conformity for products marked with the FCC logo – United States only.

This devices complies with Part 15 of the FCC Rules and with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

1.This device may not cause harmful interference;

2.This device must accept any interference received, including interference that may cause undesired operation of the device.

Canadian Industry Regulations

This product meets the applicable Industry Canada technical specifications.

The Class [B] digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulation.

Important Note

If applicable, this equipment complies with FCC/Industry Canada radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body.

For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible.

The device could automatically discontinue transmission in case of absence of information to transmit, or operational failure. Note that this is not intended to prohibit transmission of control or signaling information or the use of repetitive codes where required by the technology.

The device for the band 5150-5250 MHz is only for indoor usage to reduce potential for harmful interference to co-channel mobile satellite systems.

The maximum antenna gain permitted for devices in the band 5725-5825 MHz shall comply with the e.i.r.p. limits specified for point-to-point and non point-to-point operation as appropriate.

The transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

For questions regarding your product or the FCC/Industry Canada declaration, contact:

Actiontec Electronics, Inc
760 North Mary Avenue, Sunnyvale, CA 94086, United States
Tel: (408) 752-7700   Fax: (408) 541-9005