



NETGEAR
DG824 ADSL Modem Internet Gateway
Version 1.4 Release 05 [dg824m_1405.IMG, dg824mb_1405.IMG]
August 18, 2002

This note describes enhancements and bug fixes incorporated in the DG824B, DG824M and DG824MB firmware Version 1.4 Release 05. There are two files: dg824m_1405.IMG for DG824M, dg824(m)b_1405.IMG for DG824B and DG824MB. The new features and fixes are those added since the previous release: Version 1.4 Release 01. For historical purposes, the enhancements and bug fixes incorporated into previous firmware versions are also included.

New Features Overview, Version 1.4 Release 05

Network Time Protocol (NTP) improvement

Improved the operation of the NTP client.

Modifications and Bug Fixes, Version 1.4 Release 05

1. Improved the noise immunity of PPP state machine so that the PPP connection is not taken down if the ADSL line briefly goes down.

New Features Overview, Version 1.4 Release 01

IP over ATM (IPoA) support

RFC1577 Classical IP over ATM and RFC1483 Routed over ATM lines are now supported. The Setup Wizard can auto-detect RFC1577.

Country Selection

It is now possible to change the ATM parameters based on country selection in the Setup Wizard. It is also possible to choose the Wireless domain based on country selection in the Wireless Settings menu.

Additional wireless options

Added the ability to disable the access point and the ability to disable broadcast of SSID.

Modifications and Bug Fixes, Version 1.4 Release 01

1. Wireless stability. Previously the access point would crash under heavy loads.
2. Some hardware could not use wireless channels 12 and 13 in European countries.
3. Fixed incompatibility with voice service on some Sony Playstation 2 games.
4. PPPoA incompatibilities with several ISPs have been resolved.
5. Fixed bug where erroneous entries were entered into the log for TCP port 65535.
6. Fixed bug where the Test LED was lit when the DHCP Server was disabled on the LAN.

New Features Overview, Version 1.3 Release 03

Universal Plug and Play

Universal Plug and Play (UPnP) has been added and is enabled by default. A check box has been added to the Firewall Rules menu page to enable and disable the feature.

Modifications and Bug Fixes, Version 1.3 Release 03

1. Network Time Server (NTP) is now working when connecting to a PPPoA line.
2. Fixed ADSL synchronization problem with some Deutsche Telekom lines.
3. Fixed PPPoA disconnect problem with some ISPs.
4. Improved stability when under heavy traffic loads.
5. Maximum MTU size is no longer limited to 1362 bytes.
6. Firewall Rules can now contain overlapping ports as long as they are directed to the same server on the LAN.

Upgrade Procedure

To reach the Upgrade menu, click Maintenance from the navigation bar on the left, and then click the Gateway Upgrade heading. To upload new firmware:

1. Download and unzip the new software file from NETGEAR.
 - For the DG824B and DG824MB, the name of the file is dg824mb_1405.IMG
 - For the DG824M, the name of the file is dg824m_1405.IMG
2. Power cycle the gateway and wait for the test LED to go out.
3. In the Software Upgrade menu, click the Browse button and browse to the location of the binary (.IMG) upgrade file.
4. Click Upload. Wait for the progress bar to indicate that the upgrade is finished.
5. In the Gateway Status menu, verify that the Firmware Version now reads Version 1.4 Release 05.

Note: When uploading software to the Model DG824 gateway, it is important not to interrupt the Web browser by closing the window, clicking a link, or loading a new page. If the browser is interrupted, the software may be corrupted. When the upload is complete, your gateway will automatically restart.