Technical Information

Standby Software Upgrade Instructions

The RSP-1572 and RSX-1562 have six separate software modules – main software, video software, scaler software, front USB software, standby software and DSP audio software. The instructions below detail the procedure to update the standby software.

The procedure to update the standby software is accomplished with the use of the Rotel YModem Upgrade Manager computer communications program.

This software is only for the RSP-1572 and RSX-1562. Rotel does not take any responsibility for loss of information or problems resulting from a failed download. Units that fail after a download may be returned to Rotel for attention under warranty.
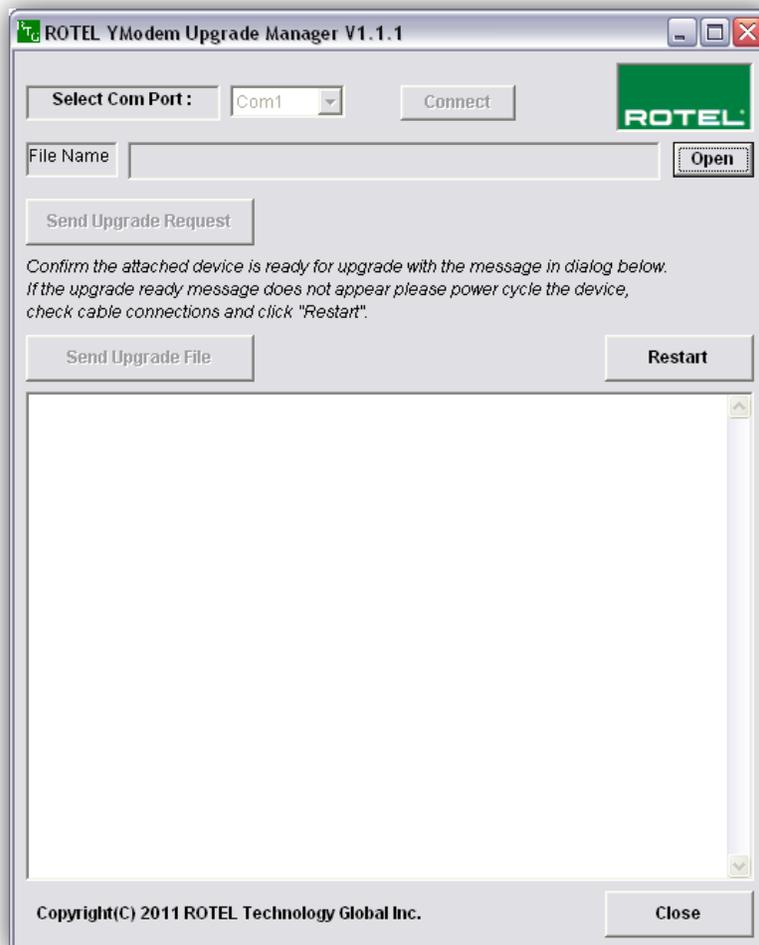
Items needed for upgrade:

- Windows-compatible PC with serial port connection, or USB-to-serial adapter.
- RS232 cable with DB-9 to RJ-45 terminations.
- Upgrade software and YModem download program.

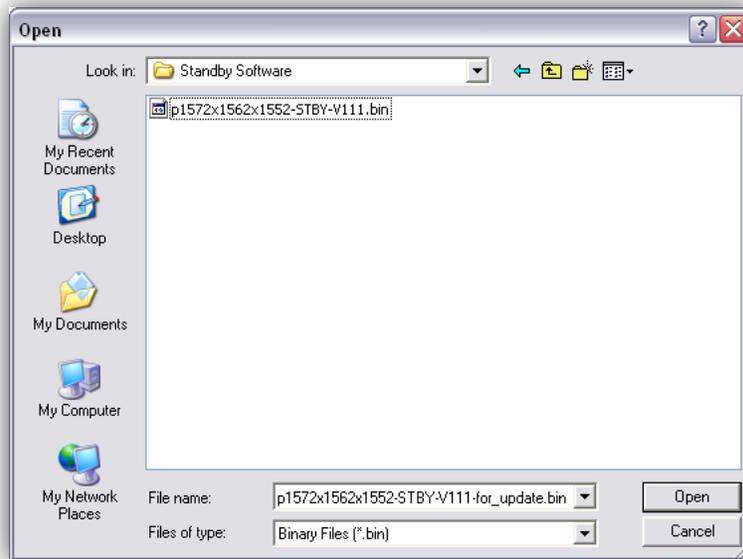### Rotel YModem Upgrade Manager Program Installation

1. Download and save the YModem update files from Rotel to a folder on the PC. Make note of where the files are saved. (example: C:\Temp)

2. From the Windows Start Menu, choose "Run…"

3. When the run window opens, click Browse and locate the folder where the files were saved. Select the file named "Rotel YModem Setup.exe".

4. Hit OK to run the setup program.

5. Once setup is running, follow the prompts to install the program into the folder of your choice.

6. When installation is complete, please refer to the upgrade instructions on the following page.

Upgrade Procedure

1. Make note of the currently installed software by pressing and holding the MUTE button on the remote control or front panel for 5 seconds. The current standby software version will only appear on the video output of the unit, so a monitor must be connected to check this.

2. Connect the RS232 cable between the unit and the computer, and confirm the Rotel unit is in standby mode.

3. Launch the Rotel YModem Upgrade Manager computer program. It should be located in the folder labeled "Rotel YModem Upgrade Manager".

4. Once the YModem program has launched, verify or adjust the settings to the following:

   - Port: COM1 *(or the appropriate COM port for your PC's serial connection – see the Troubleshooting section at the end of this document for more information on determining the correct COM port)*

5. Press "Connect" on the program. The Connect button should grey out, and the Open button should become selectable.

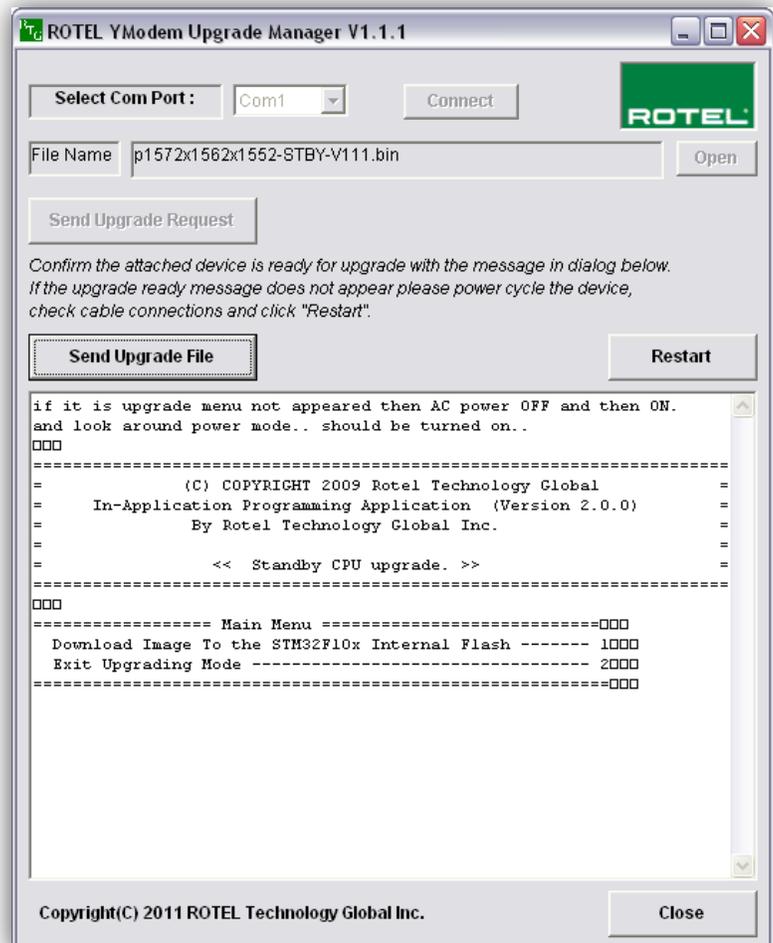6. Click the "Open" button. A window will open to locate the software update bin file which was included with the upgrade files. Browse to the location on the computer where this file was saved, select the file and click OK.
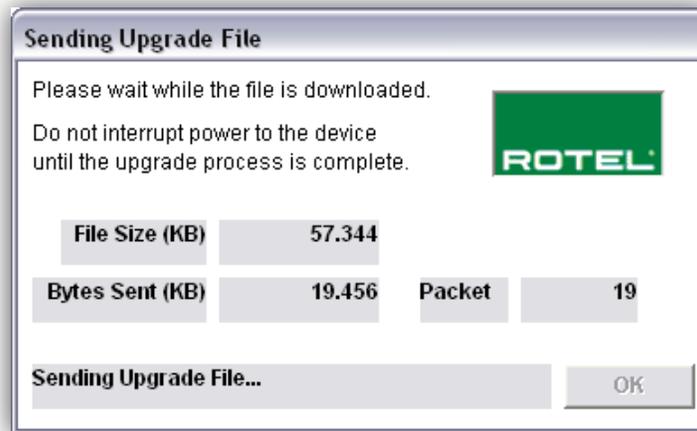

7. Once the file has been selected, click the "Send Upgrade Request" button.

The front panel display of the unit should turn off and some text should appear in the window of the YModem program.
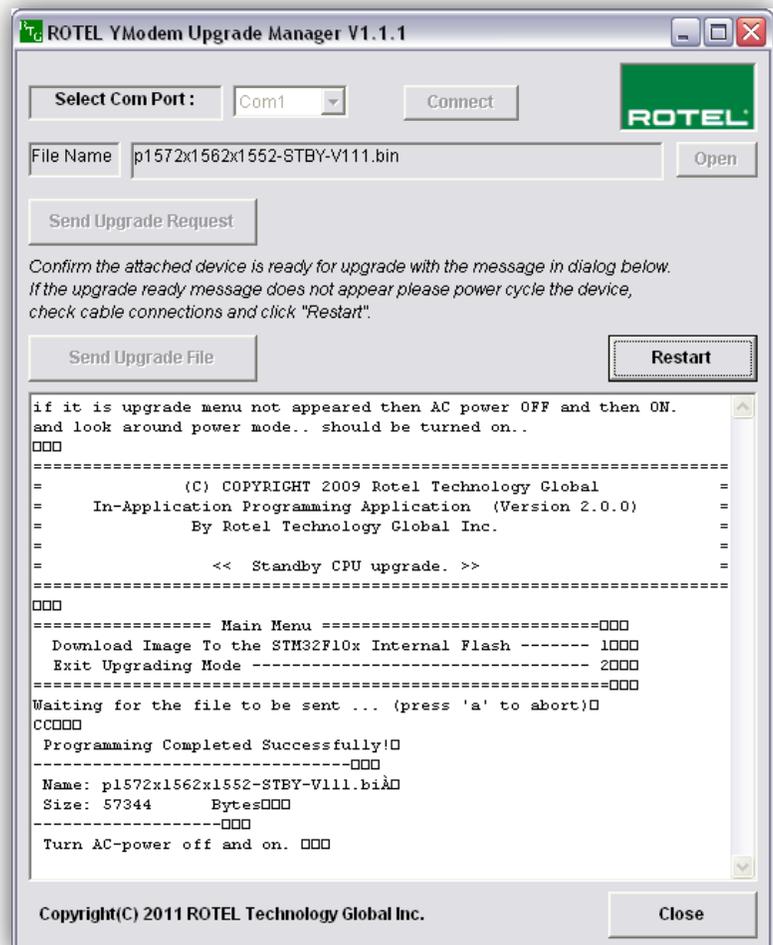
8. Click the Send Upgrade File" button to start the download. A file transfer window should appear as the file downloads to the unit.

Sending Upgrade File

Please wait while the file is downloaded.

Do not interrupt power to the device until the upgrade process is complete.

ROTEL

| File Size (KB) | 57.344 | | |
| Bytes Sent (KB) | 19.456 | Packet | 19 |

Sending Upgrade File...   OK

9. Once the transfer is complete the file transfer window will disappear, and the text in the file transfer window will indicate the programming has completed and to turn power cycle the device.

   Press "OK" to close the file transfer window, and then press "Close" to close the YModem Upgrade Manager.

10. Power off the unit via the back panel switch, disconnect the upgrade cable, and power it back on to complete the upgrade process.

ROTEL YModem Upgrade Manager V1.1.1

Select Com Port :   Com1   ▼   Connect   ROTEL

File Name   p1572x1562x1552-STBY-V111.bin   Open

Send Upgrade Request

Confirm the attached device is ready for upgrade with the message in dialog below. If the upgrade ready message does not appear please power cycle the device, check cable connections and click "Restart".

Send Upgrade File   Restart

```
if it is upgrade menu not appeared then AC power OFF and then ON.
and look around power mode.. should be turned on..
□□□
=================================================================
=          (C) COPYRIGHT 2009 Rotel Technology Global          =
=       In-Application Programming Application  (Version 2.0.0) =
=              By Rotel Technology Global Inc.                  =
=                                                               =
=              <<  Standby CPU upgrade. >>                      =
=================================================================
□□□
================= Main Menu =========================□□□
  Download Image To the STM32F10x Internal Flash ------- 1□□□
  Exit Upgrading Mode ------------------------------ 2□□□
=======================================================□□□
Waiting for the file to be sent ... (press 'a' to abort)□
CC□□□
 Programming Completed Successfully!□
-------------------------------□□□
Name: p1572x1562x1552-STBY-V111.biÀ□
Size: 57344      Bytes□□□
-----------------□□□
Turn AC-power off and on. □□□
```

Copyright(C) 2011 ROTEL Technology Global Inc.   Close

If at any time the update is interrupted or failed, or the unit does not respond after upgrade, try the procedure again.

Troubleshooting

It is important when selecting the com port for updates and RS232 communication to be aware of what com port is being used on the PC for the upgrade, whether it be a built in serial port on the PC, or a USB to serial adapter. Selecting the incorrect com port in an update program or an RS232 terminal will result in communication errors.

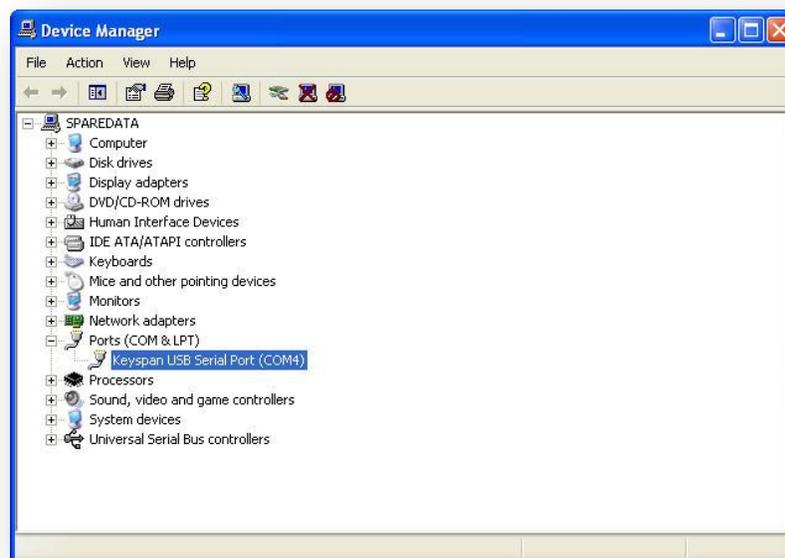Common YModem error messages from incorrect com port settings are:

- **"Unable to connect. Please verify COM port information."**

  This error appears when selecting a com port that does not exist on the PC, or when the currently selected com port is in use by another program or device.

  o **Solution:** Refer to the steps below for information on how to determine which com port the serial port is on, and how to change it if necessary. If the port is correct, close all open programs. Common programs that also use the serial port would be other terminal programs like HyperTerminal.

Use the following steps to confirm which com port the serial port or USB to Serial adapter has been installed to and if necessary, change it to a more suitable port.

1. From the desktop, right click on "My Computer", and select Properties.
2. From the System Properties window, click on the Hardware tab, and select Device Manager.
3. From the Device Manager Window, look for the setting labeled Ports (COM & LPT), and click on the + to open this section. The USB to Serial adapter should be listed in this area, with the COM port in use listed in parenthesis next to it.

4. YModem allows selection of com ports 1-4 for updating. If the USB adapter has been installed to a port higher than com 4, the following steps can be used to change this.

>   ***Note****: these instructions are for Keyspan USB to Serial adapters, other manufacturer's instruction may vary.*

5. To remap the com port, from Device Manager right click on the USB to Serial adapter and select Properties.

6. From the properties window, click on Port Settings. Then click on Start Assistant to launch the Keyspan assistant program.

7. Once the Keyspan assistant program has launched, click on the Port Mapping tab. Towards the bottom of the window select the "COM port mapping for selected adapter port:" A drop down menu will list all of the available com ports on the computer in black, while those ports that are currently in use are grayed out. Select an available port, and close the assistant to save the changes.