Tune-Up Procedure (Duo-i6525)

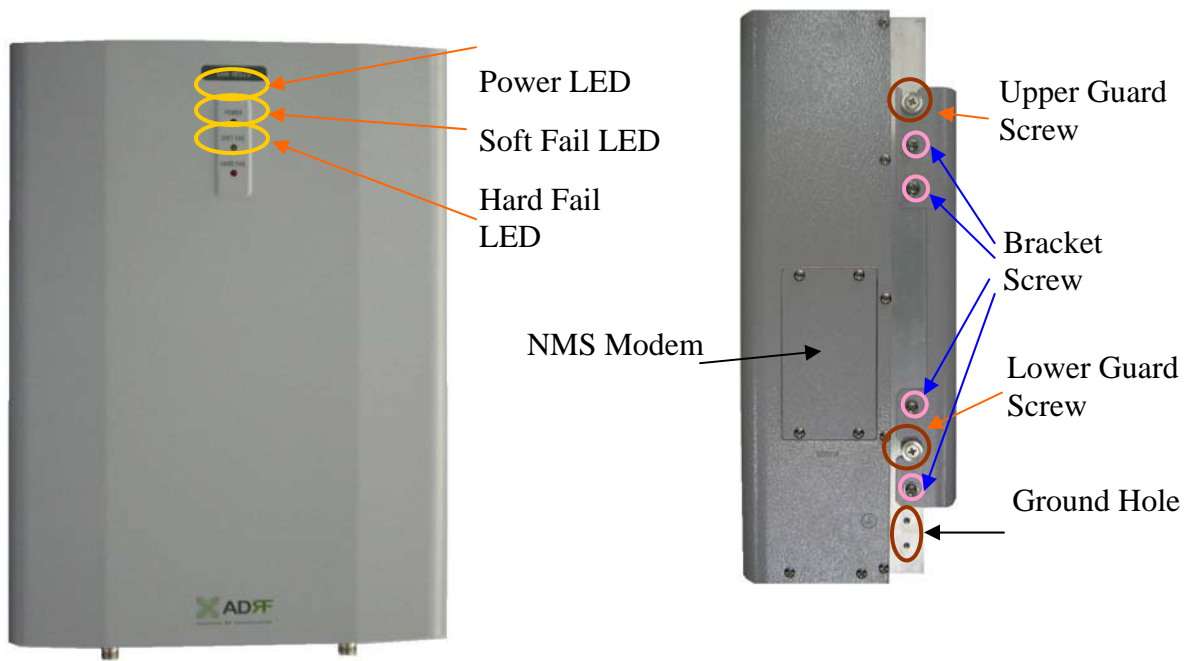

Power LED

Soft Fail LED

Hard Fail LED

Upper Guard Screw

Bracket Screw

NMS Modem

Lower Guard Screw

Ground Hole

Figure 1 – Duo-i6525 Front & Side Views

Donor Antenna Port

Server Antenna Port

Power Switch

Ethernet Port

Mode Selection Switch

Anchor Bolt Hole

Wall Mounting Bracket

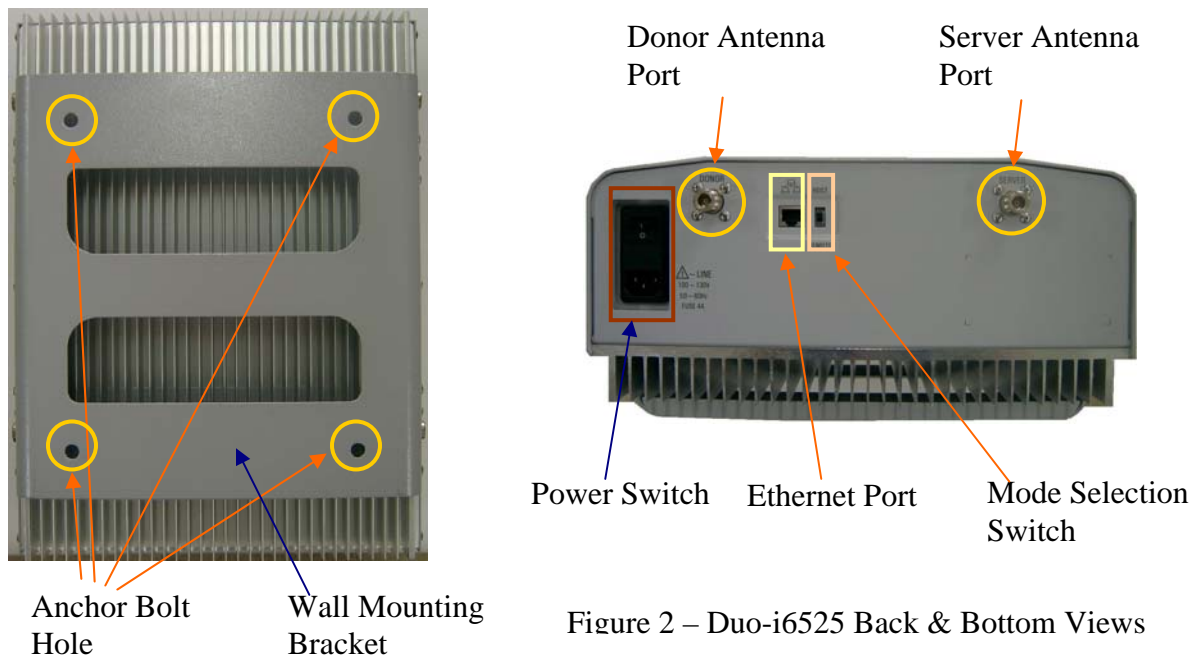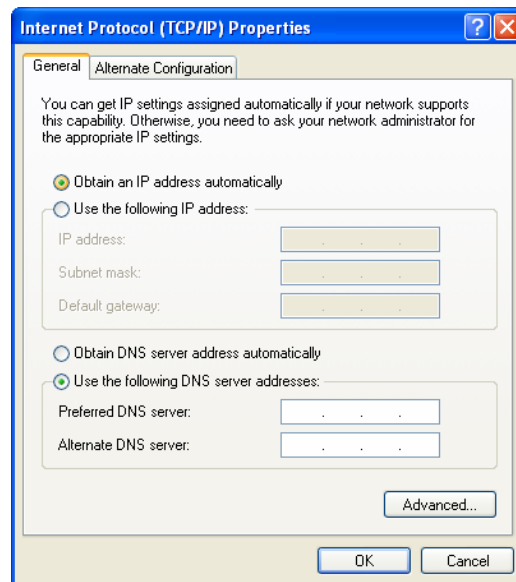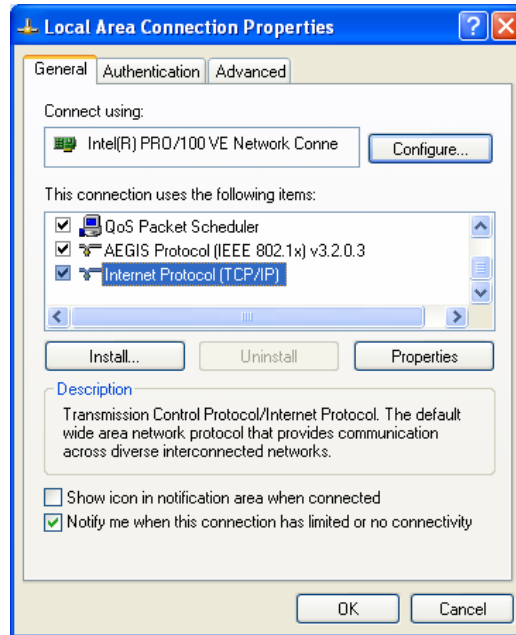Figure 2 – Duo-i6525 Back & Bottom Views

i) Connect the LAN cable between laptop's Ethernet port and repeater's Ethernet port.

Note: Under Local Area Connection in Network Settings, make sure to select **Obtain an IP address automatically** under Internet Protocol (TCP/IP) properties.

ii) Launch MS Internet Explorer (Version 6.0 or higher)

Note: ADRF's Web GUI is not compatible with any other web browsers (e.g. Netscape, FireFox, Mozilla, etc.).

iii) Please type the following IP address on the address bar of MS Internet Explorer:

http://192.168.63.1/home.asp

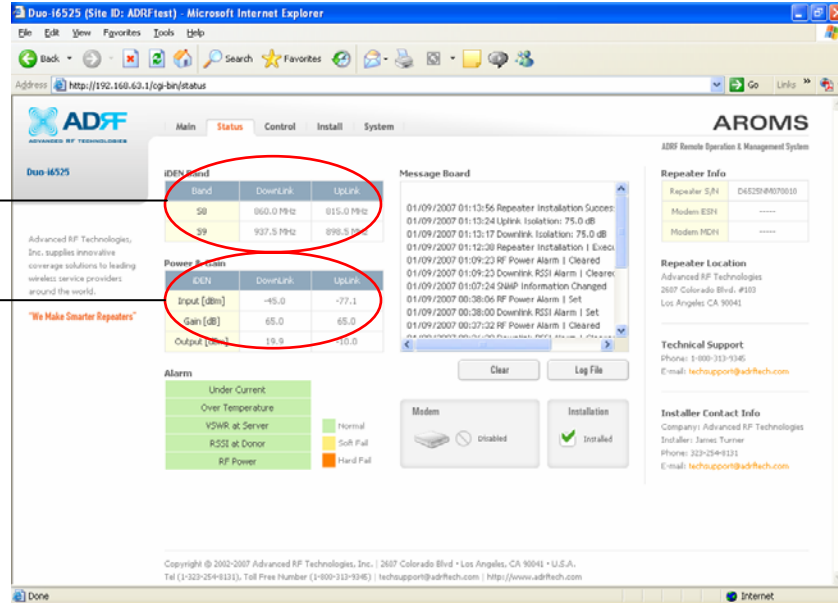iv) The following login screen will appear:

If you are not the Super-User, please type in your assigned username & password which you should have received from the Super-User.

The default username and password for the General User is adrf & adrf, respectively.

If the username & password is typed in incorrectly, the following screen will appear:

v) If you click on **Status tab**, the following window will appear:

In this window, the user can **view** the following:

To **change** any parameters, e.g., iDEN Band, Gain Settings, you have to go to Install or Control Menu.

- iDEN Band: Will display the center frequencies of the 800 and 900 MHz spec trums on the downlink and uplink respectively.

iDEN Band

Band	DownLink	UpLink
S8	860.0 MHz	815.0 MHz
S9	937.5 MHz	898.5 MHz

- Power & Gain: Will display the repeater input, gain and output power on the d ownlink and uplink.

Power & Gain

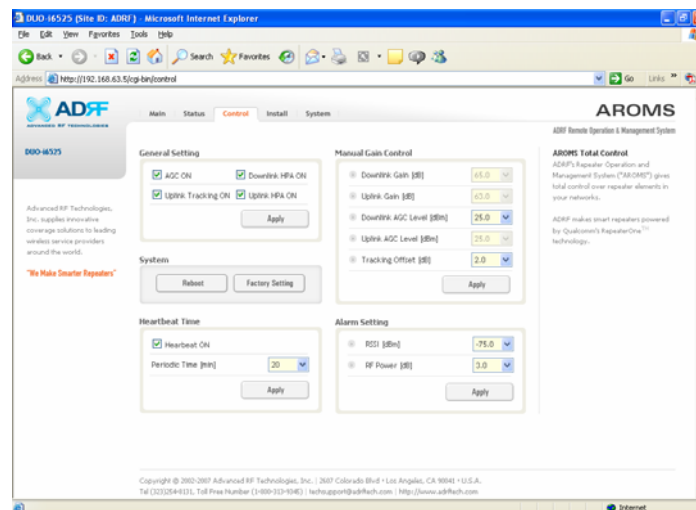| iDEN	DownLink	UpLink
Input [dBm]	-45.0	-77.1
Gain [dB]	65.0	65.0
Output [dBm]	19.9	-10.0

- Alarm: Will display five alarms with three different status conditions (Normal
  , Soft Fail or Hard Fail).
- Message Board: Will show up to recent 20 log messages (Alarms & Heartbeat
  s).
- Modem: Will display the status of the mode (e.g. Disabled, Not Connected or
  Connected)
- Installation: Will display repeater's installation status (Not Installed or Installe
  d).
- Repeater Info: Will display repeater's serial number, modem ESN and MDN.
- Repeater Location: Will display the address where the repeater is installed
- Technical Support: Will display ADRF's Technical Support contact informati
  on.
- Installer Contact Info: Will display the installer's name, phone and e-mail add
  ress.

Note: Once successfully logged in, the repeater model name and the site/cascade
ID will be displayed on the top of all the windows (except for the Main Window).

Parameters	Range	Step Size
DL/UL Output Power	-10 ~ 28 dBm	0.1 dB
DL Input Power	5 ~ -95 dBm	0.1 dB
Gain	40 ~ 65 dB	0.5 dB

Table 2 – Default Parameter Ranges

vi) If you click on **Control tab**, the following window will appear:

In this window, the user can adjust the following parameters:
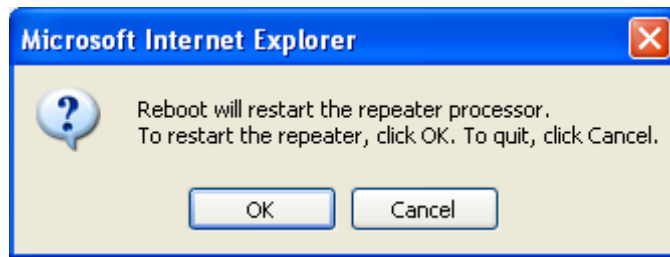
General Setting
- Automatic Gain Control (Default mode is Off)
- Downlink HPA on/off (Default mode is On)
- Uplink HPA on/off (Default mode is On)
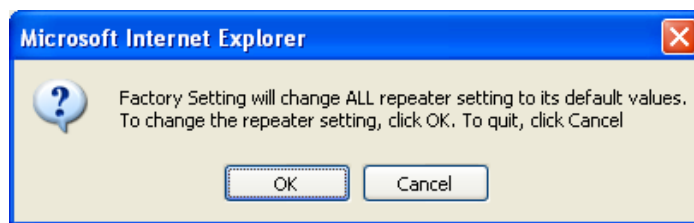- Uplink Tracking mode on/off (Default mode is Off)

Manual Gain Control
- Downlink Gain Control (40 to 65 dB @ 0.5 dB step, default value: 25 dB)
- Uplink Gain Control (40 to 65 dB @ 0.5 dB step, default value: 25 dB)
- Downlink AGC Level (15 to 25 dBm @ 0.5 dB step)
- Uplink AGC Level (15 to 25 dBm @ 0.5 dB step)
- Uplink Tracking Offset (0 to 10 dB @ 0.5 dB step - Default mode is Off)

System

- If you click the Reboot button, the following message box will appear:

Microsoft Internet Explorer

? Reboot will restart the repeater processor.
To restart the repeater, click OK. To quit, click Cancel.

OK   Cancel

- If you click the Factory Setting button, the following message box will appear:

Microsoft Internet Explorer

? Factory Setting will change ALL repeater setting to its default values.
To change the repeater setting, click OK. To quit, click Cancel

OK   Cancel

Heartbeat Time
- Heartbeat on and off (Default mode is Off)
- Heartbeat periodic time (Range: 1 to 59 min @ 1 min step –
  Default time is 20 min)

Alarm Setting
- RSSI Alarm at Donor (-95 ~ -50 dBm @ 0.5 dB step –
  Default value is -75 dBm)
- RF Power Alarm (2 ~ 10 dB @ 0.5 dB step –
  Default value is 3 dB)

vii) If you click on **Install tab**, the following window will appear:

- Band Selection: Simply click on the desired operating bandwidth.
- Modem: By default, auto-connection box is checked so that the modem will connect automatically once sufficient donor signal is present.
- SNMP: Type in the assigned site/cascade ID and manager IP address. Default Site ID and Manager IP address is ADRF and 100.10.10.100 respectively.
- Repeater: Click Install button to automatically setup the repeater.
- Repeater Location: Will display the physical address where the repeater is installed
- Repeater Installer Info: Will display the installer's name, phone and e-mail Address for technical support.

viii) If you click on **System tab**, the following window will appear:

Only the Super-User can add, delete and modify a user. The following window illustrates how a new user can be added by simply clicking on New Account.
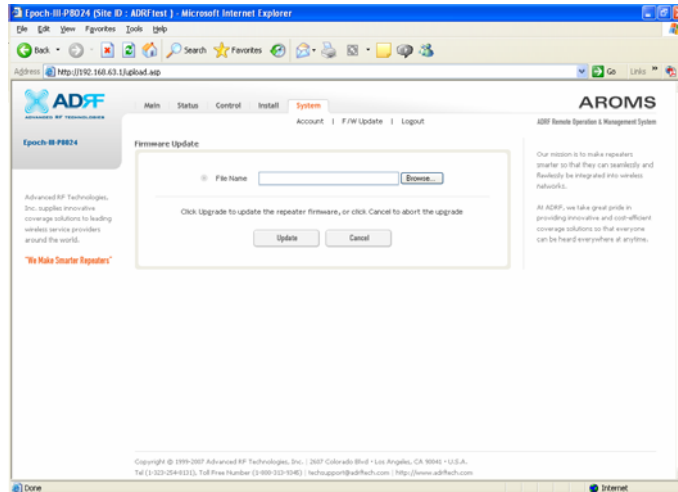

The following window illustrates how a new administrator can be added by simply clicking on Administrator.

If you click on Firmware Upgrade, the following window will appear. You can browse through your PC and locate the firmware file. Once it's selected, simply click on Update and it'll upload the latest firmware automatically and close the session. You will need to re-login again.

Trouble Shooting

If you encounter a problem during the installation and an "Installation Incomplete" message comes up, please contact the Technical Support Department at:

E-Mail: techsupport@adrftech.com
Phone: 1-800-313-9345 / 323-254-8131