



Application Note

09/13/2010

Installing Ku Band VSAT for GTECH with Super Buddy™ satellite meter

Connections: LNB connected to top (SIGNAL IN) port of Super Buddy meter with coax cable.

Meter set-up

Press the **SYST** System soft-key (located near top left corner of LCD screen) to enter the System Setup menu. Then select the following:

- REGION your geographic region
- SERVICE **Other Providers**
- SYSTEM **GTECH**
- LNB MODEL **G17 91W** or **SES1 101W** depending on your work order instructions
- SWITCH TYPE defaults to **none**

*To make selections, arrow up or down to the item to change and press **Enter**, then arrow up or down to the desired option and press **Enter**. Press **EXIT** or **DONE** to return to Run Mode*

Antenna Pointing

Install the mast plumb, preset the antenna vertical angle, mount to mast and grossly align azimuth. You may want to enter your local zip code into the ZIP zip code look-up feature to obtain rough antenna settings.

- Use left / right arrow keys to select the desired satellite, either 91°W Galaxy 17 or 101°W SES1 (orbital position displayed in upper left). Refer to your service paperwork to know which satellite to aim dish at.
- Press the **ZIP** zip code soft-key, type in the local zip code or latitude/longitude of the installation site, and press **ENTER**. Approximate antenna settings (magnetic heading, elevation, polarization offset) will be displayed. Press **EXIT** soft-key to return to the main Run screen.

Run Mode

- Select the vertical or horizontal receive polarity (**VT** or **HZ**) with the upper right soft-key. Refer to your service paperwork to know which receive polarity to choose. GTECH uses vertical (VT) as the downlink/receive polarization, so be sure that VT is displayed in upper right corner of LCD screen.
- Press **LNB** soft-key (located on middle right side of LCD screen) to power the LNB.

After selecting the satellite, receive polarity and pressing the **LNB** soft-key to power the LNB:

- Adjust antenna azimuth and elevation to obtain maximum signal level (left bar graph), signal quality (right bar graph), and LOCK status.
- Rotate the LNB and feed horn assembly (adjusting the polarization offset) to maximize signal level and quality.
- Press the **ID** soft-key to verify the satellite. "ID VERIFIED" means you are pointed correctly.
- If "ID FAILED" is displayed, press **SCAN** soft-key and Super Buddy will find which satellite you are aimed at.
- If desired, you may also use Up/Down arrow keys to scroll through other transponders to check for proper level and quality. The transponder labeled "GTECH" is the carrier actually being used by GTECH. You will see the transponder labels and corresponding frequencies changing in the top right corner of the LCD screen as you toggle through them with the Up/Down arrow keys.

Other Notes:

-It is NOT recommended to keep Super Buddy meter in line while checking IRD/receiver/modem status due to attenuation from our circuitry.