



Application Note

11/15/2010

Installing C Band LNBF systems with Super Buddy™ satellite meter

C-Band LNBF

Connections: C-Band LNBF connected to top (SIGNAL IN) port of Super Buddy satellite meter.

Examples of popular C-Band LNBFs:

- DMS International's model BSC421 C-Band Dual Polarity LNBF, which features voltage controlled H/V switching (13V/18V) and an input frequency range of 3.4 - 4.2 GHz.
- Chaparral Communications' model MicroPak 3G C-Band Dual Polarity LNBF, which features voltage controlled H/V switching (13V/18V) and an input frequency range of 3.4 - 4.2 GHz.

Meter set-up

Push the **SYST** System soft-key to select the following:

- **REGION** your geographic region
- **SERVICE** **Generic C Band**
- **SYSTEM** your system configuration type (dual polarity LNBF system options include **H/V Dual Pol LNBF** and **Circ Dual Pol LNBF**). These selections are referring to Horizontal/Vertical Dual Polarity LNBF setup and Circular Dual Polarity LNBF.
- **LNB MODEL** your LNB type (refer to your LNB's specifications). Dual polarity LNBF system options include C-Band LNBF 13/18V, C/Ku band combo, C-Band Stacked, Inverted C 13/18V.
- **SWITCH TYPE** defaults to **none**

*To make selections, press up/down arrow keys to scroll to the item to change 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 use the ZIP code look-up table to obtain rough antenna settings.

- Press the left / right arrow keys to select the desired satellite (orbital position displayed in upper left corner of LCD screen).
- Press the **ZIP** zip code soft-key (located near lower left corner of LCD screen). Type in the local zip code or latitude/longitude coordinates using the numeric keypad and then press **ENTER**. Approximate antenna settings will be displayed.

Run Mode

- Press the **LNB** soft-key (located near middle right side of LCD screen) to power the LNBF.

After selecting the satellite and pressing the **LNB** soft-key to power the LNBF:

- Adjust the antenna azimuth and elevation to obtain maximum signal level (left bar graph), signal quality (right bar graph), and LOCK status.
- Adjust the LNBF focal depth distance and the polarity offset to maximize signal quality, if necessary.
- 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, press Up/Down arrow keys to scroll through other transponders to check for proper signal level and signal quality. It is recommended to aim the dish initially while tuned to the default transponder.

Other Notes:

-It is recommended to display the C/N signal quality value instead of the arbitrary IRD value since the IRD value scale is more appropriate for smaller dishes. To change your settings, press the **MENU** soft-key in bottom right corner of LCD screen. Use Up / Down arrow keys to scroll to Options and press **Enter**. Use Up / Down arrow keys to scroll to the Quality field. Then use Left / Right arrow keys to select C/N. Press **EXIT** soft-key to return to main Run screen.