

VE-PG3 Application Notes

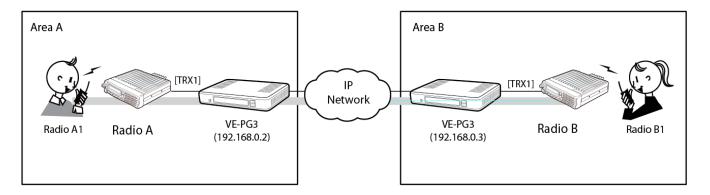
UNICAST MODE: DIGITAL NXDN OPERATION

What is Unicast Mode?

The Digital Unicast Mode allows you to connect (bridge) from your portable and talk to a portable radios in another area. An IP connection provides communication through the VE-PG3 and the fixed base station to the other area.

Unicast Operation

In this Application, Radio A1 transmits to Radio A. Radio A then sends the signal through its VE-PG3 to remote site B.



What You Will Need

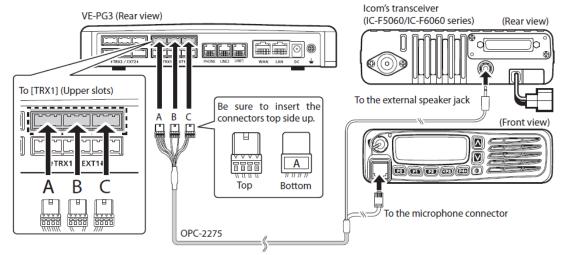
- Two VE-PG3 units
- Two F5061 mobile radios, digital mode
- Two F3161 handheld radios, digital mode
- Two OPC-2275 cables (for connecting the VEPG3 and F5061 radio)



How to Connect

Connect the VE-PG3 and the mobile radio as shown in the following diagram.

Note: Ensure that the radio and VE-PG3 are turned off before connecting.



• The [TRX1] and [TRX2] ports (upper slots) accept the OPC-2275 connectors, however, follow the example to correctly connect the transceiver to ONLY the [TRX1] on the VE-PG3.

Programming the Radios

- 1. Program Radios A and A1 at Site A so that their frequencies match (Digital Simplex Mode).
- 2. Program Radios B and B1 at Site B so that their frequencies match (Digital Simplex Mode).
- 3. Set the volume to the 9 o'clock position on the F5061 radios.



Programming the VE-PG3

The following paragraphs describe how to:

- Change the VE-PG3 IP address
- Program for Unicast

Changing the VE-PG3 IP Address

You will need to change the IP address for both VEPG3 devices to addresses determined by your network plan. Consult your IP professional to create a network plan.

Note: Your VE-PG3 will need to be connected as described in *How to Connect*.

1. Open your web browser. The default address is: 192.168.0.1.



- 2. Enter the newly assigned IP address of the VE-PG3 in the address field.
- 3. After pressing Enter, the Login Authentication window will appear.

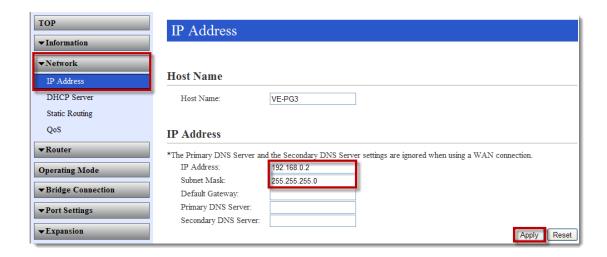


- 4. Enter the following (default) information:
- Username Admin
- Password Admin



Set a new IP address for your VE-PG3 according to your network plan.

- 5. Click **Network** and select **IP Address**.
- 6. Enter your VE-PG3 IP Address and click Apply.



Click Reboot to enter the new VE-PG3 IP Address.



8. Once you have rebooted, the login window will appear. Enter the username and password again.

Note: depending on your newly assigned IP address, you computer IP address may have to be changed to access the VE-PG3 again.

©2012 Icom America Inc. Page 4

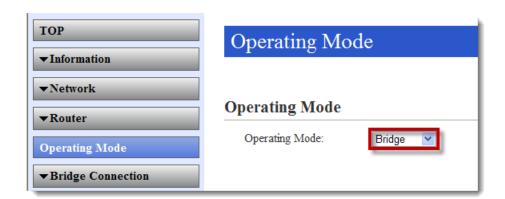




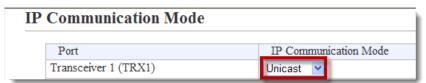
Programming for Unicast Operation

Program the Area B radio to the Area A radio settings.

1. Click **Operating Mode**. Ensure that **Bridge** is selected in the dropdown box. Be sure to click **Apply** if you change the setting to **Bridge**.



2. Select Unicast for the Area A radio (transceiver 1) and then click Apply.



Page 5



3. After clicking **Apply**, you will be prompted to reboot. Follow the instructions in the boot sequence.

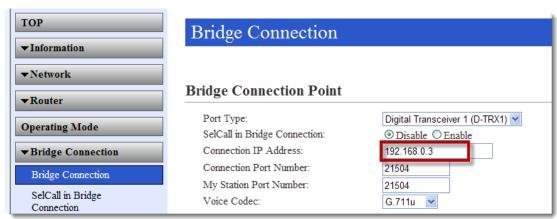


4. Click the **Port Settings** menu. The Transceiver 1 window will appear. Verify the desired radio model is listed in the drop-down list.

You now enter the Area B radio IP information to the Area A radio.



- 5. Go to the **Bridge Connection** window and enter the IP address of the VE-PG3 in Area B. This bridges the Area A radio to the Area B radio.
- 6. Click **Apply** when the IP is entered.



©2012 Icom America Inc. Page 6



7. Click Connect.



8. Verify that **During Transmit** appears.



9. Repeat steps 2 through 8 for the VE-PG3 in Area B. This bridges the Area A radio to the Area B radio.

Your VE-PG3 devices are now configured for use.

Page 7