

TRANSMITTER

MODEL: REPEATER



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Getting Started

The REPEATER Programming Software provides the flexibility to program REPEATER to meet individual requirements. To obtain the best results from the product, please take a few minutes to read this instruction guide.

Equipment Required

To install and operate the programmer, you need a system that meets the following minimum requirements:

- A personal computer (PC), or compatible
- Windows 2000 or above operating system (XP Recommended)
- 256 MB of RAM
- A serial output port with DB9 connector

Programming Interface

The Programming interface kit, shown in following Figure, supports REPEATER programming Items included with the interface kit consist of the following:

- REPEATER Programming software
- AD/DC adapter/power supply
- DB9 male-DB9 female connector or USB to Serial Port Adapter (Suggest you to use Prolific PL2303 USB to serial adaptor)

Installing Programming Software

Installation

Install the programmer software into a PC as follows:

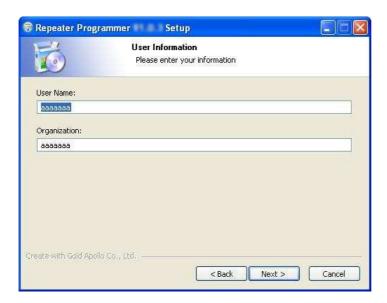
- 1. Uncompress the Repeater_Setup.zip and save them in a temporary directory.
- 2. Double click the setup.exe file. Click on "Y".



3. Click "Next" on the Welcome screen.



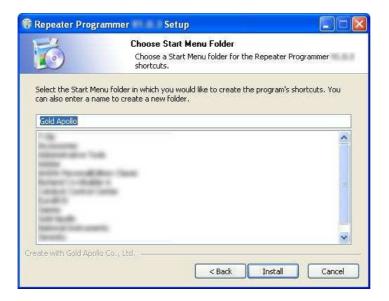
4. Enter your user information and click "Next". (Note: you must enter at least a single character "into the company field)

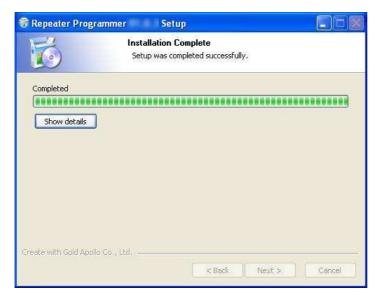


5. Choose where the program should be installed and click "Next".



6. On the Select Program Folder screen, choose where you would like the program to show up in your start menu and click "Install".





7. Click "Finish" on the Setup Complete screen.

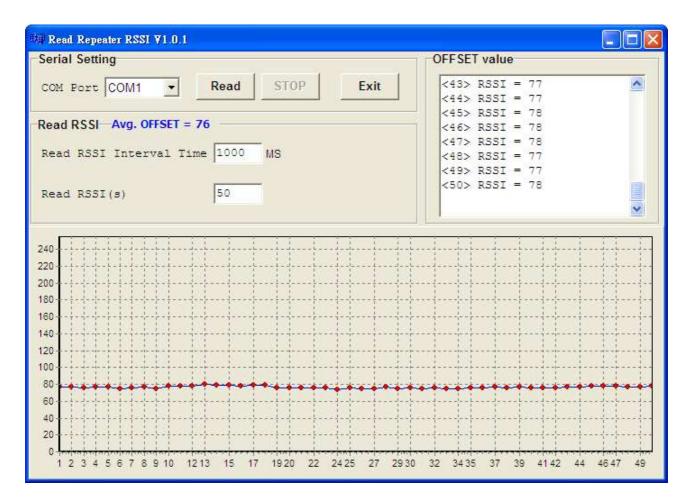


Running

You now have the program installed. To run it from the Start menu/ Programs/ Gold Apollo /Repeater Programmer.

S_RSSI Setting

Please make sure to configure the S_RSSI setting before programming your repeater.



After turning on the repeater, connect the RS-232 cable to your PC. Please be sure to run the program "Read Repeater RSSI" within 3 minutes. After you requested number of times for reading, you'll get the average offset value of the repeater.

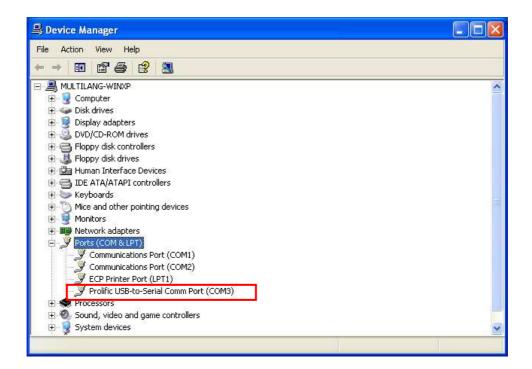
For example, you put "50" in Read RSSI(s), then the software will read the RSSI value for 50 times and get the average offset value. If the average offset value is 76, then add 10. The S_RSSI value for programming will be 86.

Repeater Programming

Introduction

Please follow the below steps for programming Repeater:

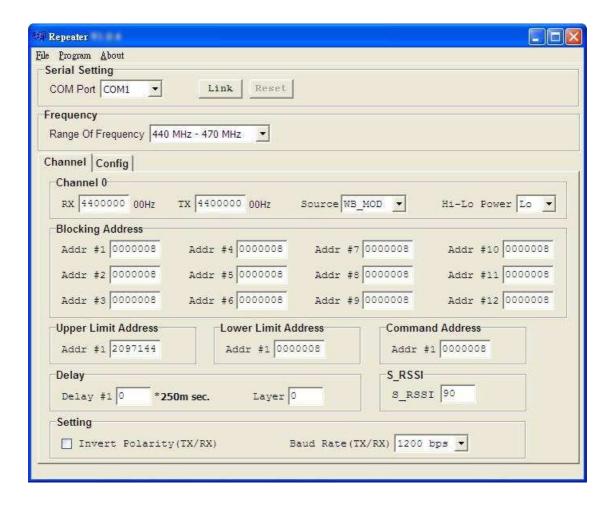
- 1. Connect Repeater to a PC
- 2. Identify the COM Port that is being connected to.
 - ◆ If you are using a Serial Port as your connection to the PC, please make sure it is connected to COM1 or COM2.
 - ◆ If you are using a USB-to-Serial connection and have installed the driver for USB-to-Serial connection, the 「Prolific USB-to-Serial Comm Port」 will appear under Ports (COM&LPT). The following screen gives an example of the systems detects a USB-to-Serial connection is being connected to COM3. It appears Prolific USB-to-Serial Comm Port (COM3).



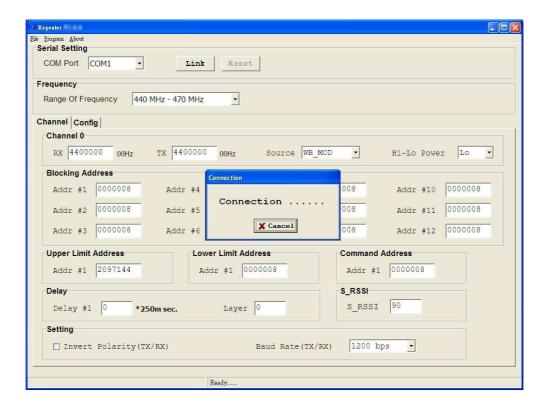
◆ If 「Prolific USB-to-Serial Comm Port」 does not appear, please refer to the instruction for installation on USB connection.

Starting the Programming

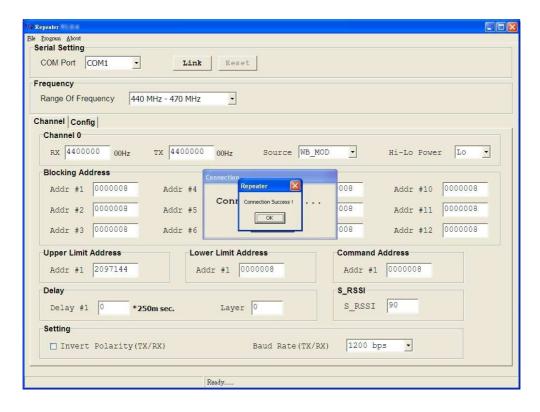
 The application can be launched from Start → Programs → Gold Apollo →Repeater Programming. The Main Menu appears:



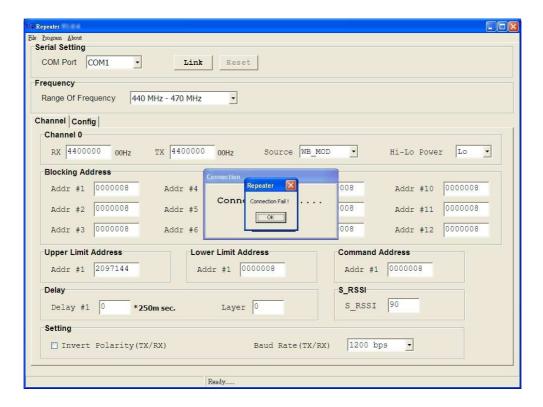
2. Choose your Com Port, then click "Link". Wait for Repeqter to establish connection to the PC.



3. Turn on the power for REPEATER, wait for REPEATER to establish connection to the PC. If it is successfully connected, the following screen will appear.

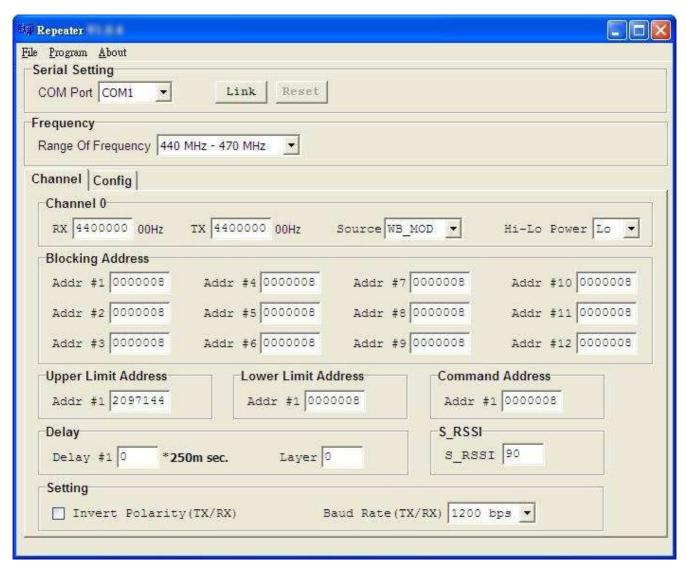


4. If any questions, the following window appears:



Please re-check the REPEATER and COM port are well installed or not.

Main Menu



Menu bar

In the menu bar, there are main menus with submenus like those conventionally used in Windows applications.



• File | Open

Open a REPEATER code-plug file. The file has the extension ".tbl".

File | Save

Save the current code-plug data to a file. If the code-plug data file has already been saved, REPEATER suggests the same filename to you click on Save, the file is overwritten.

• File | Save As

Save the current code-plug data to a file with different filename. If you saved the code-plug data file previously and don't need to change the file name, you can used the Save command instead.

• Program | Write

Write the current code-plug data to the REPEATER.

Program | Read

Read code-plug data from the REPEATER.

About

Information about the REPEATER programming version.

Serial Setting



COM Port

After the program is executed, the system will automatically load the available COM Port into the menu and set COM1 as the primary COM Port.

Link

Press "Link" to wait for the connection between REPEATER and PC.

Reset

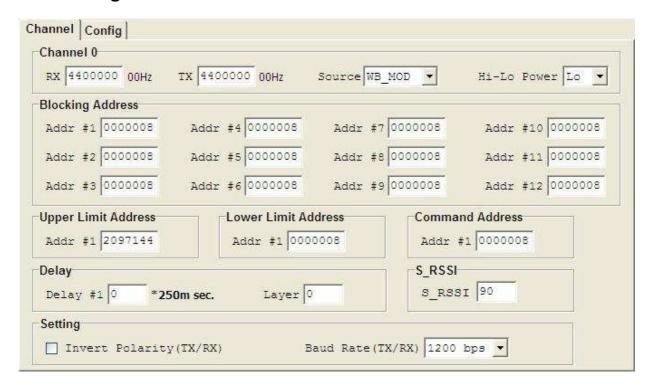
Note that all the changes will only be effected after the REPEATER is being reset. To rest REPEATER, press "Reset" after it is successfully programmed.

Frequency

Ranger Of Frequency

Select your desired frequency range.

Channel Setting



Channel 0



RX

Enter the receiver frequency.

TX

Enter the transmit carrier frequency.

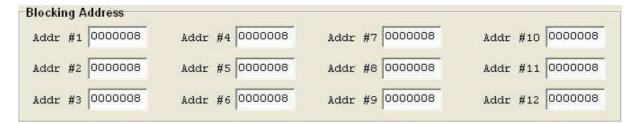
Source

Select one of the source. The option has WB_MOD (deviation 4 K) and NB_MOD (deviation 2K).

Hi-Lo Power

Select High Power (5W) or Low Power (1W)

Blocking Address



Addr #1

You can block the repeating of signals for up to 12 capcodes.

Upper / Lower Limit Address



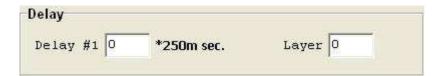
The signals will only repeat for the capcodes within this range.

Command Address



To set the layer for Multi-layer repeating.

Delay



Delay #1

To set the time delay for repeating after receiving a signal. The unit is based on 250ms. For example, if you would like to delay the repeating for 1 second, then enter "4".

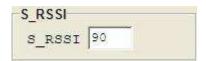
Layer

To set the capcode for Multi-layer repeating. Enter "0" for single layer and "1~7" for multi-layer repeating.

For multi-layer repeating, "1" means the first layer is the master repeater. Only the master repeater can receive signals from the transmitter. Then it will repeat the signals to the next layer "2" and so on.

Note: after rebooting your repeater, the TX LED will flash according to the number of the layers of the repeater.

> S_RSSI



S_RSSI

It will trigger repeating when the RSSI is below this value. Please refer to pager 6 for instructions on how to set the S_RSSI value.

> Setting



Invert Polarity (TX/RX)

Choose to Invert Polarity.

Baud Rate (TX/RX)

POCSAG Signal Baud Rate.

Configuration



Config

UART_baud

The baud rate is on which the Transmitter operates.

UART_data

The data format is on which the Transmitter operates.