



Gold Apollo Co., Ltd.

# TRANSMITTER

MODEL : TX125EN



# TRANSMITTER PROGRAMMING GUIDE

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## Getting Started

The TX125EN Programming Software provides the flexibility to program TX-125EN 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 TX-125EN programming. Items included with the interface kit consist of the following:

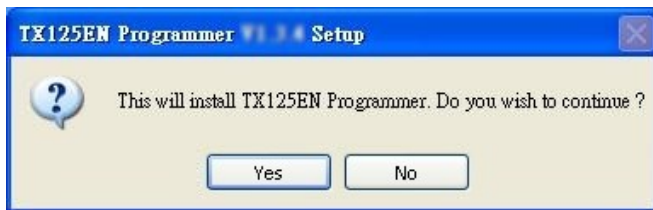
- TX-125EN Programming software
- AD/DC adapter/power supply
- DB9 male-DB9 female connector or USB to Serial Port Adapter (Suggest you to use Prolific PL2303 USB to serial adaptor)

# Installing Programming Software

## Installation

Install the programmer software into a PC as follows:

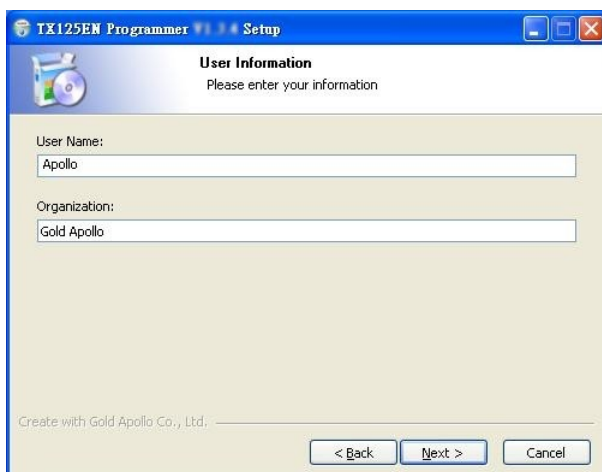
1. Uncompress the TX125EN\_Setup.zip and save them in a temporary directory.
2. Double click the setup.exe file. Click on “Y”.



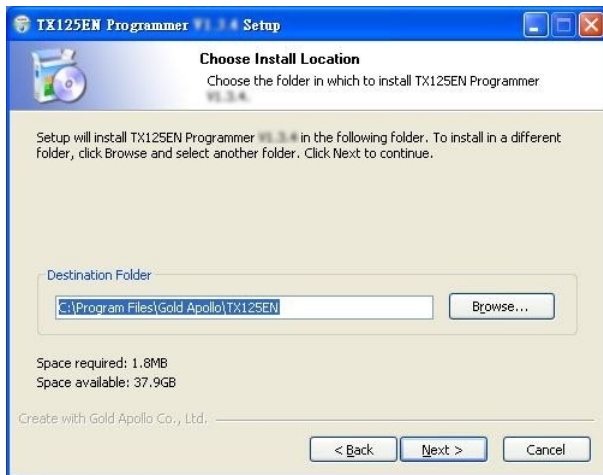
3. Click “Next” on the Welcome screen.



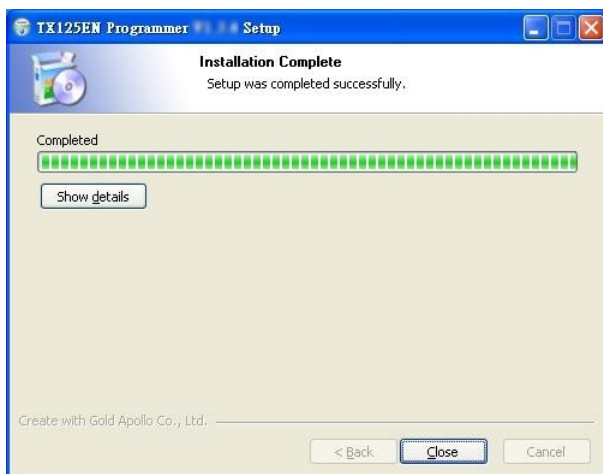
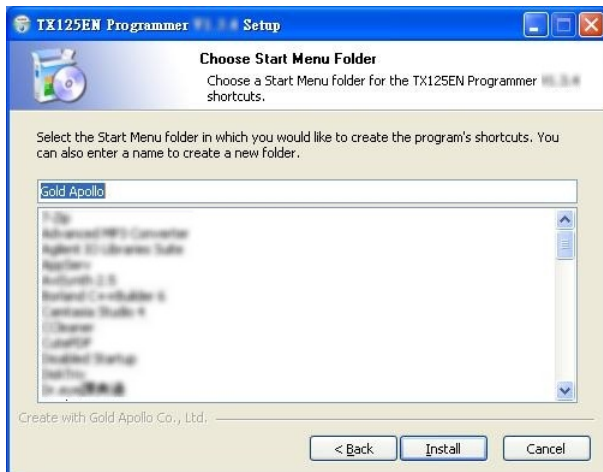
4. Enter your user information and click “Next”. (Note: you must enter at least a single character "into the company field)



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

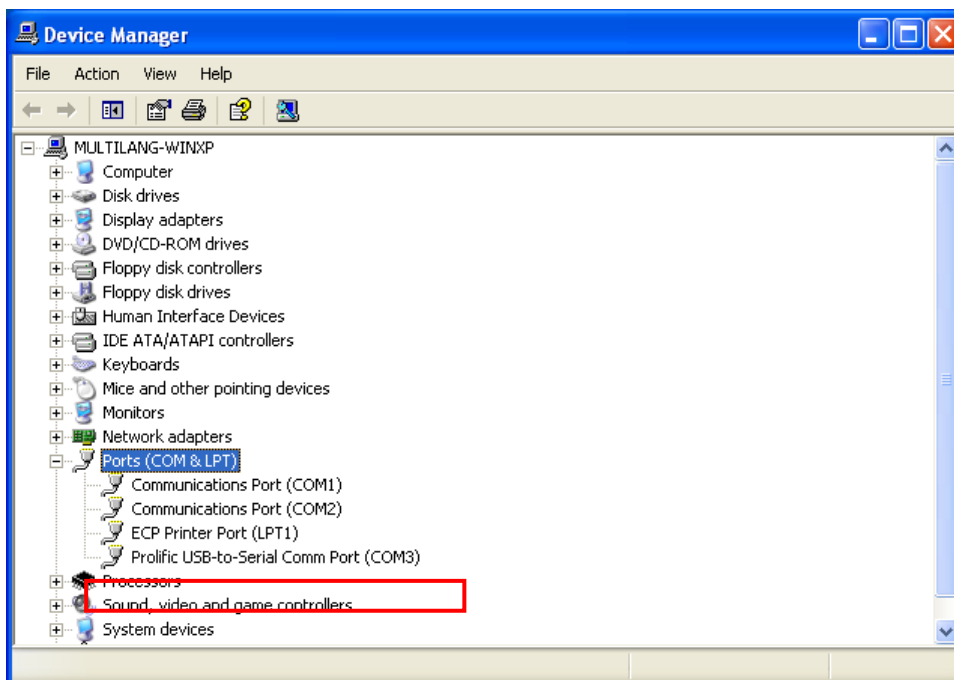
You now have the program installed. To run it from the Start menu/ Programs/ Gold Apollo /TX125EN Programmer.

# TX-125EN Programming

## Introduction

Please follow the below steps for programming TX-125EN :

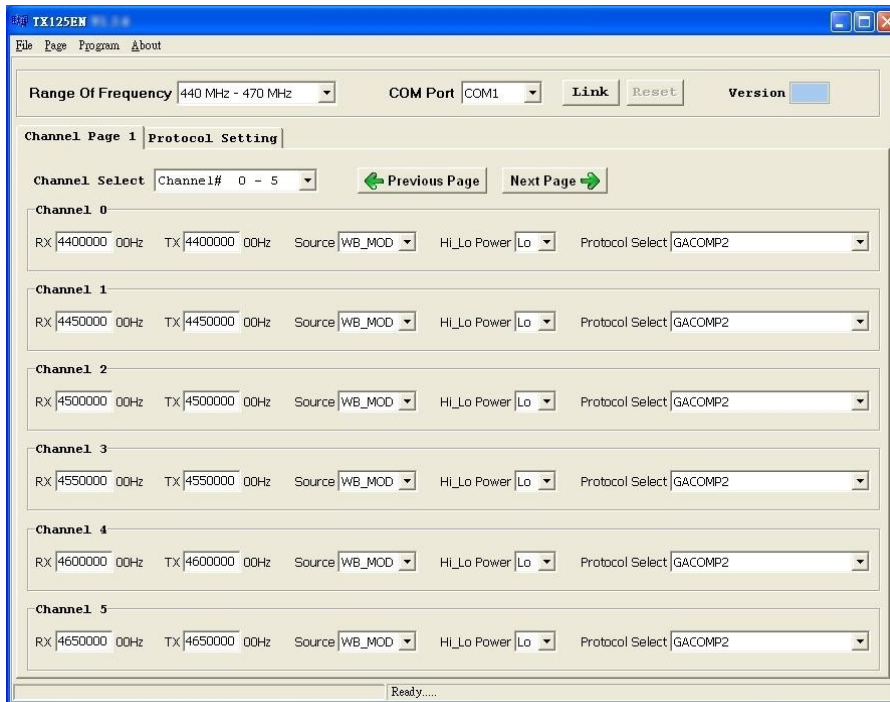
1. Connect TX-125EN to a PC
2. Identify the COM Port that is being connected to.
  - ◆ If you are using a Serial Port as your connection to the PC, please make sure it is connected to COM1 or COM2.
  - ◆ If you are using a USB-to-Serial connection and have installed the driver for USB-to-Serial connection, 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).



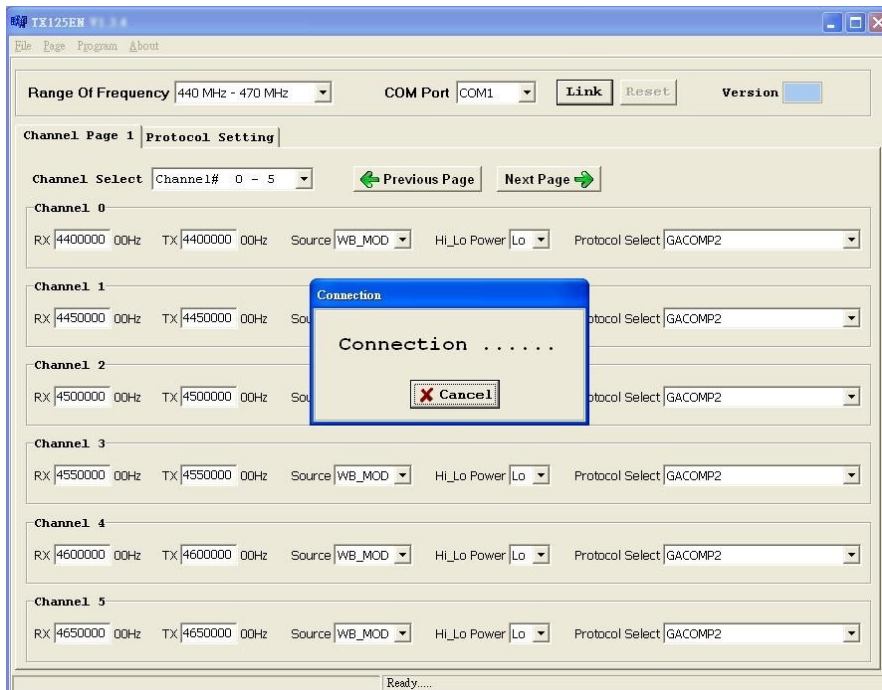
- ◆ If 「Prolific USB-to-Serial Comm Port」 does not appear, please refer to the instruction for installation on USB connection.

## Starting the Programming

1. The application can be launched from Start → Programs → Gold Apollo →TX125EN Programming. The Main Menu appears:

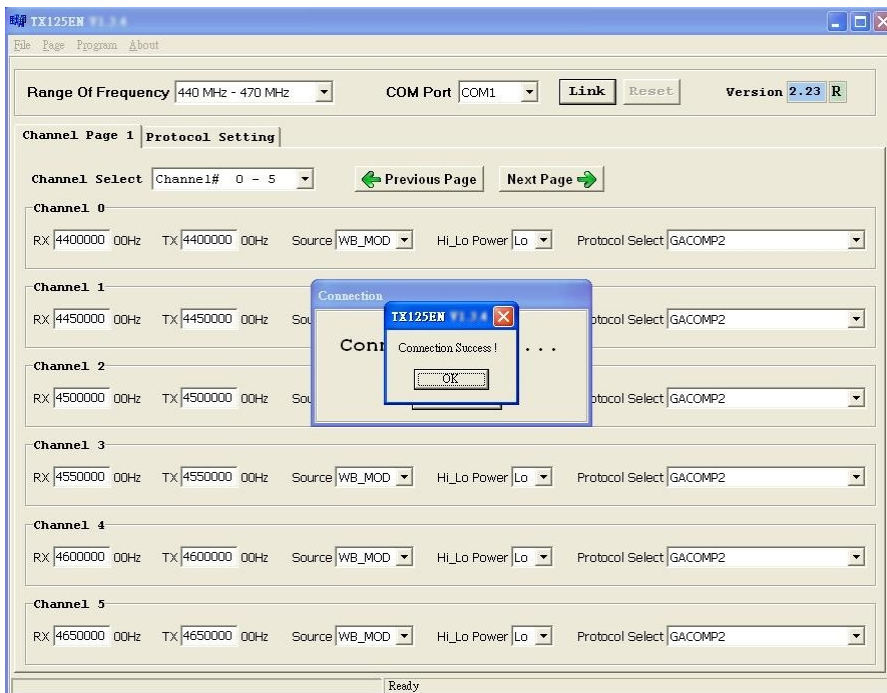
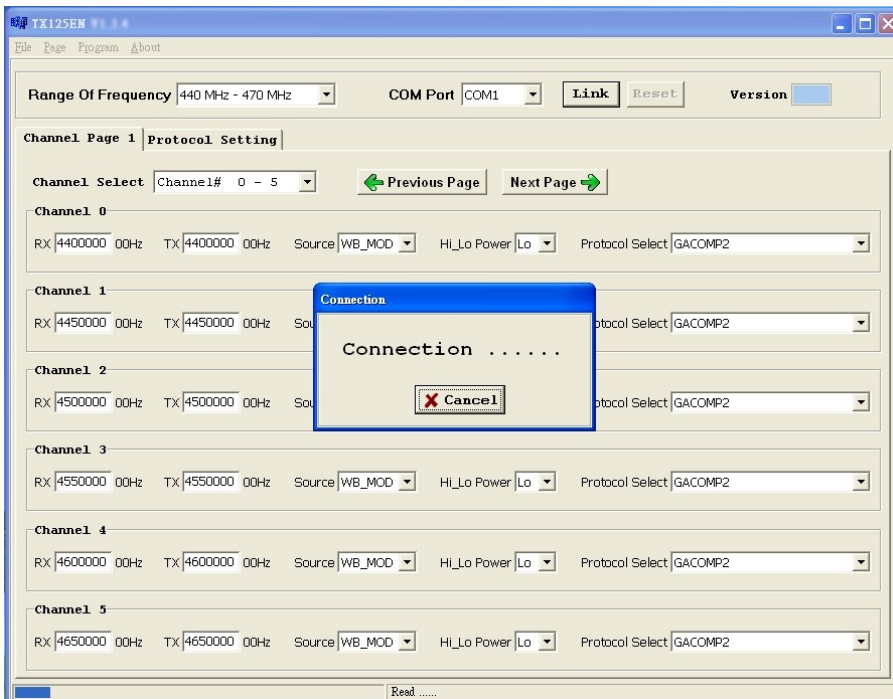


2. Choose your Com Port, then click "Link". Wait for TX-125EN to establish connection to the PC.

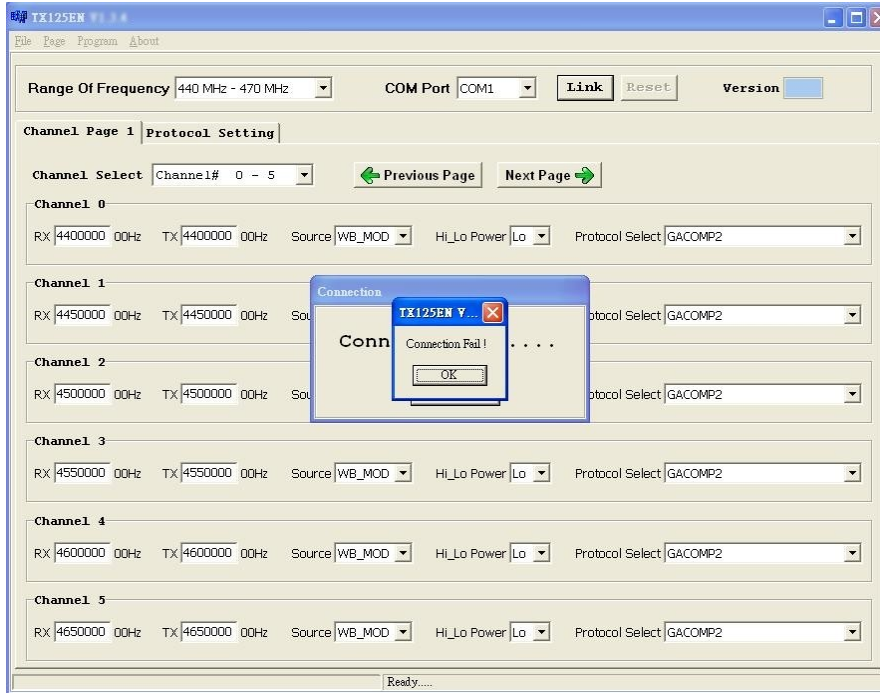




3. Turn on the power for TX-125EN, wait for TX-125EN to establish connection to the PC. If it is successfully connected, the following screen will appear.

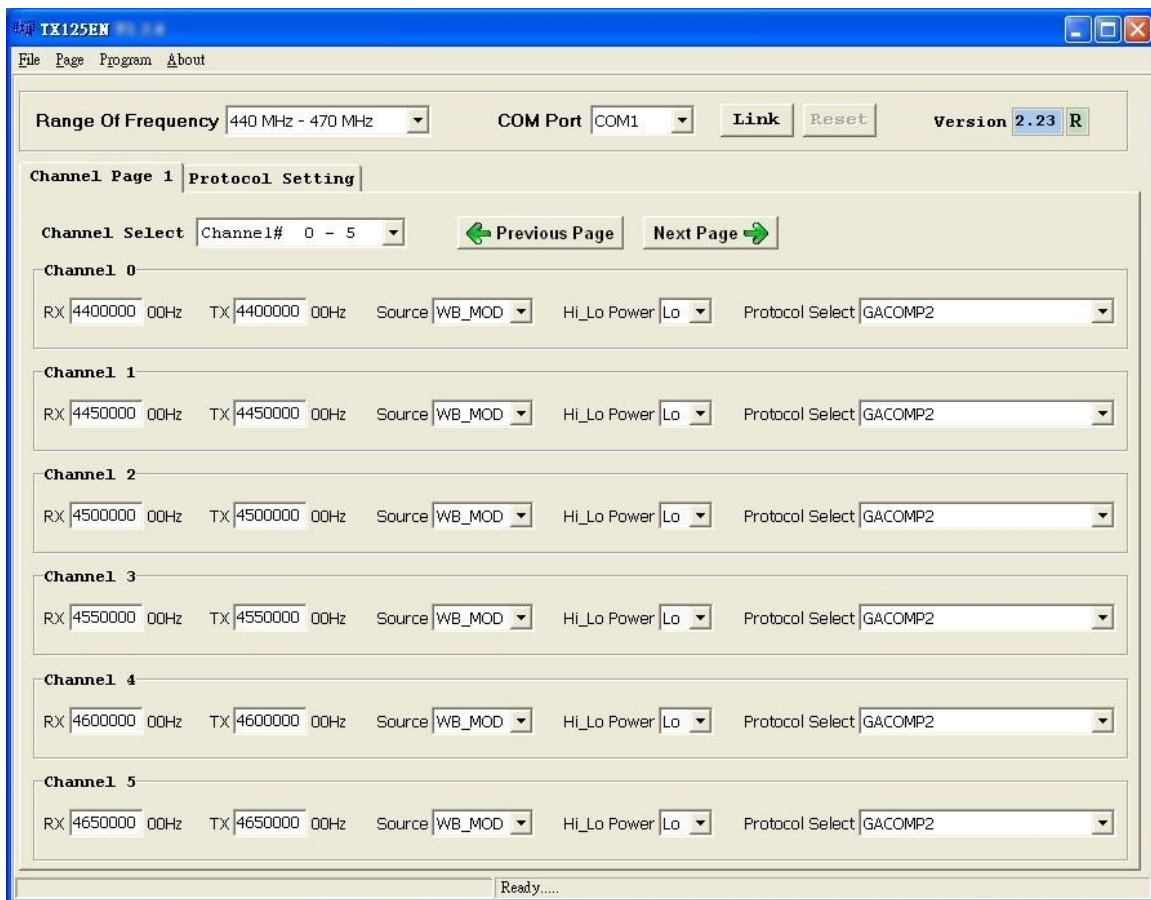


4. If any questions, the following window appears:



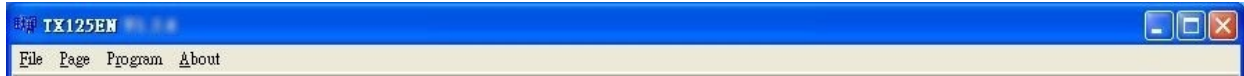
Please re-check the TX-125EN and COM port are well installed or not.

## 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 TX-125EN 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, TX-125EN 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 use the Save command instead.

- **Program | Write**

Write the current code-plug data to the TX-125EN.

- **Program | Read**

Read code-plug data from the TX-125EN.

- **Page | Config**

Set important parameter which requires a password to enter.

- **About**

Information about the TX-125EN programming version.

## Range of Frequency

Select your desired frequency range.



Range Of Frequency 440 MHz - 470 MHz

## 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.



COM Port COM1

## Link

Press "Link" to wait for the connection between TX-125EN and PC.

## Reset

Note that all the changes will only be effected after the TX-125EN is being reset. To reset TX-125EN, press "Reset" after it is successfully programmed.

## Channel

The screenshot shows the 'Channel Page 1' of the 'Protocol Setting' interface. It features a 'Channel Select' dropdown menu set to 'Channel# 0 - 5' and navigation buttons for 'Previous Page' and 'Next Page'. Below this, six channel configurations are listed, each with its own set of controls:

- Channel 0:** RX 4400000 00Hz, TX 4400000 00Hz, Source WB\_MOD, Hi\_Lo Power Lo, Protocol Select GACOMP2
- Channel 1:** RX 4450000 00Hz, TX 4450000 00Hz, Source WB\_MOD, Hi\_Lo Power Lo, Protocol Select GACOMP2
- Channel 2:** RX 4500000 00Hz, TX 4500000 00Hz, Source WB\_MOD, Hi\_Lo Power Lo, Protocol Select GACOMP2
- Channel 3:** RX 4550000 00Hz, TX 4550000 00Hz, Source WB\_MOD, Hi\_Lo Power Lo, Protocol Select GACOMP2
- Channel 4:** RX 4600000 00Hz, TX 4600000 00Hz, Source WB\_MOD, Hi\_Lo Power Lo, Protocol Select GACOMP2
- Channel 5:** RX 4650000 00Hz, TX 4650000 00Hz, Source WB\_MOD, Hi\_Lo Power Lo, Protocol Select GACOMP2

### ➤ Channel Select

Total 16 channels (channel 0~15)

### ➤ Channel 0

TX-125EN is supported 16 channels. Here is an example for channel 0.

This close-up shows the settings for Channel 0:

- Channel 0**
- RX: 4400000 00Hz
- TX: 4400000 00Hz
- Source: WB\_MOD
- Hi\_Lo Power: Lo
- Protocol Select: GACOMP2

#### ● 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)

- **Protocol Select**

Select one of the protocols. The options are GATAP, IPage 2 Personal Edition, WaveWare Paging System Tap, Programming, GACOMP2, POCSAG TEXT, POSCAG Numeric, COMP2, COMP1, SCOPE and CID\_TAP. (Default Comm. parameters = 9600, N, 8, 1)

## Protocol Setting

Channel Page 1 Protocol Setting

**Protocol**

Invert Polarity      UART\_baud 9600 bps

UART\_data 8,N,1

Channel Page 1 Protocol Setting

**Protocol**

Invert Polarity      UART\_baud 9600 bps      Baud Rate 1200 bps  
(Use for Protocols : POCSAG TEXT \ POCSAG Numeric \ CID\_TAP)

UART\_data 8,N,1      Encoder Type Alpha  
(Use for Protocol CID\_TAP Only)

FunBit 0 0 (A)  
(Use for Protocol CID\_TAP Only)

### ➤ Protocol

λ

#### **Invert Polarity**

Choose to Invert Polarity.

●

#### **UART\_baud**

The baud rate is on which the Transmitter operates.

●

#### **UART\_data**

The data format is on which the Transmitter operates.

●

#### **Baud Rate**

Use for Protocols : POCSAG TEXT \ POCSAG Numeric \ CID\_TAP.

- **Encoder Type**

Select one of the Encoder type. It use for CID\_TAP only. The options has Alpha \ Numeric or Tone only.

- **FunBit**

Select Function Bit 00 01 10 11. It use for CID\_TAP only.

## Pager Database

The Pager Database can only be changed when the protocol is either GATAP, IPage 2 Personal Edition, WaveWare Paging System Tap, Programming, COMP2 or COMP1. The Pager has 999 ID's (No.1 ~ No.999). Each ID can set its Address \ Pager Type \ Baud Rate \ Function Bit. When a Pager ID is equal to or greater than 100, it can only be set as No. 100, No. 200 ... No. 900 etc. And the address adds 1 to it. For example, Pager ID No.100 will have the Address as 0000100, Pager ID No. 101 will have the Address as 0000101 ... and so on.

Index	Address	Type	Baud	FunBit
1	1234560	Alpha	1200 bps	0 0
2	1234561	Alpha	1200 bps	0 0
3	1234562	Alpha	1200 bps	0 0
4	1234563	Alpha	1200 bps	0 0
5	1234564	Alpha	1200 bps	0 0
6	1234565	Alpha	1200 bps	0 0
7	1234566	Alpha	1200 bps	0 0
8	1234567	Alpha	1200 bps	0 0
9	1234568	Alpha	1200 bps	0 0
10	1234569	Alpha	1200 bps	0 0