

Classification	Confidential
Doc Number	
Date	June 23, 2007
Version	Draft v0.2

# **E-Tool for EMP U360 Operating Manual**

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# Revision History

Date	Description	Old Version	New Version
2007/06/01	Draft created		V0.1
2007/06/23	Add "Get Slot ID" and "Switch to TP Mode" Function		V0.2



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# 1 Introduction

This document describes the operating method by using E-Tool for EMP U360.

## 2 Set Slot ID

### Step 1

The **E-Tool V1.0** dialog box will show when you execute **P\_E\_tool.exe**.



P\_E\_tool.exe



### Step 2

Choose **Function->Slot ID**, and click it to Set Slot ID automatically.



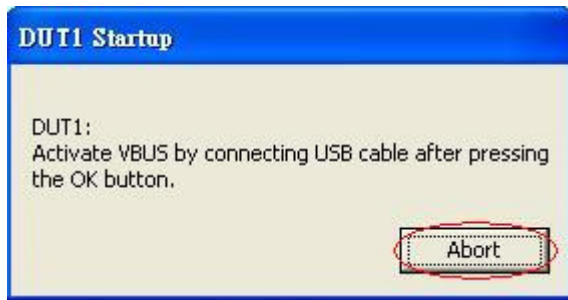
### Step 3

It will show the following dialog, click “確定” to continue.



**Step 4**

It will show the following dialog, turn on inactive DUT ,then click “Abort” to continue.



**Step 5**

If it shows the following dialog , click“確定” and please repeat Step2 through to Step4 .



**Step 6**

If the following dialog appeared , it represents Set Slot ID successfully.

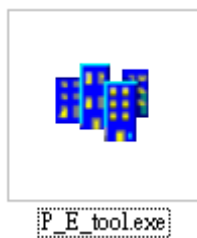


## 4 Operating Method

### GSM PART

**Step 1**

The **E-Tool V1.0** dialog box will show when you execute **P\_E\_tool.exe**.

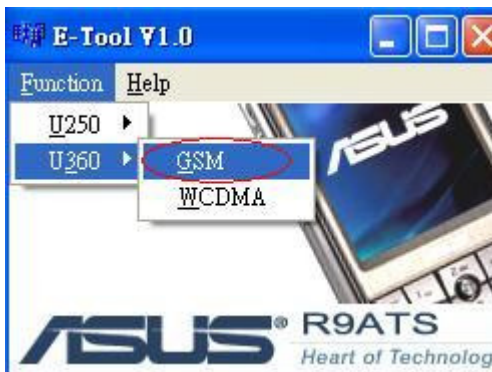


E-Tool for EMP U360



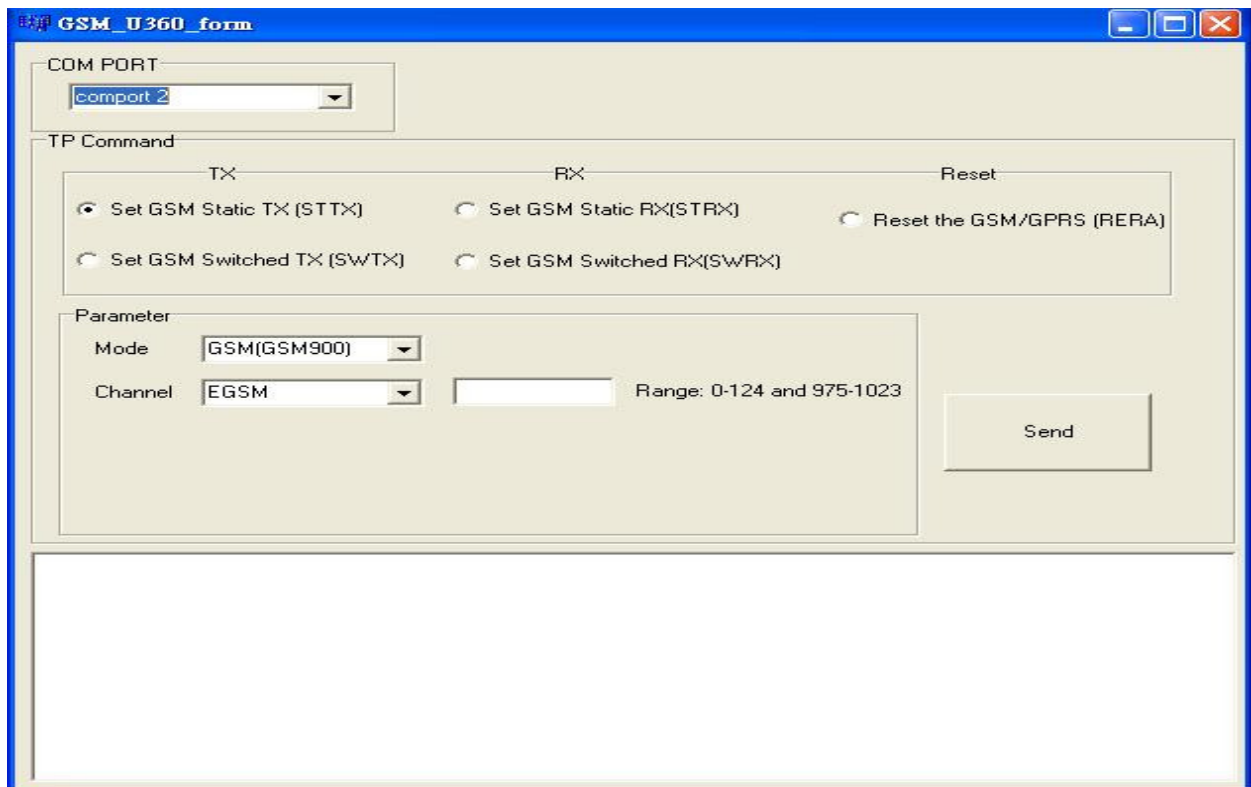
Step 2

Choose **Function->U360->GSM**, and click GSM to show **GSM\_U360\_form** dialog box.



Step 3

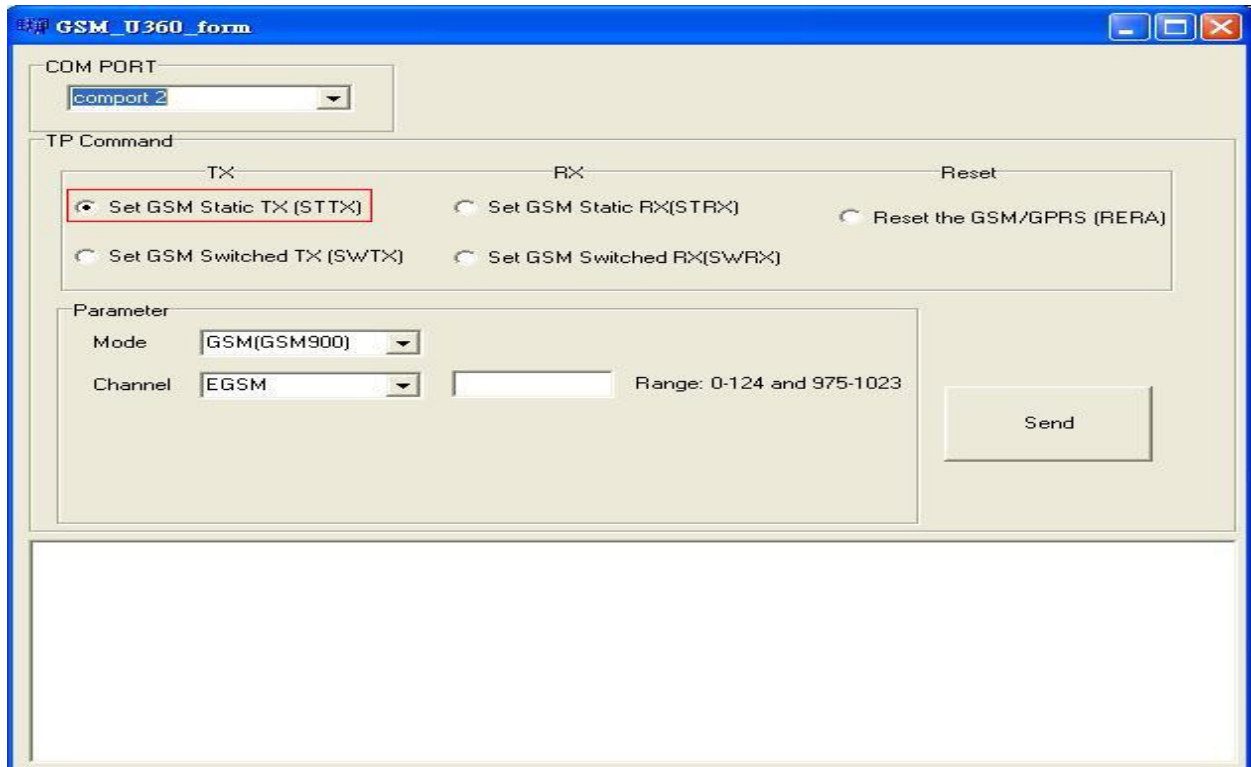
Choice com port number to communicate with Mustang.



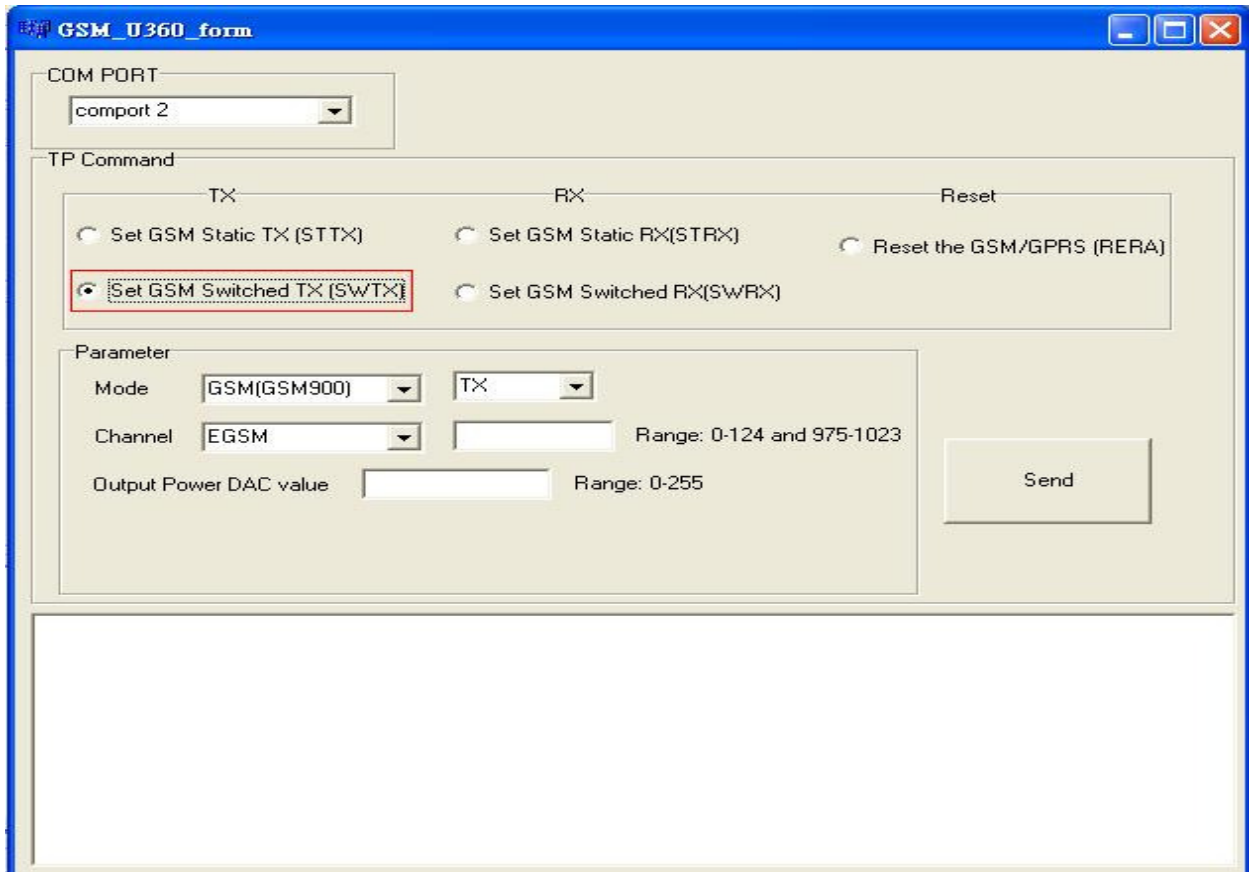
#### Step 4

Choice which tp command to send

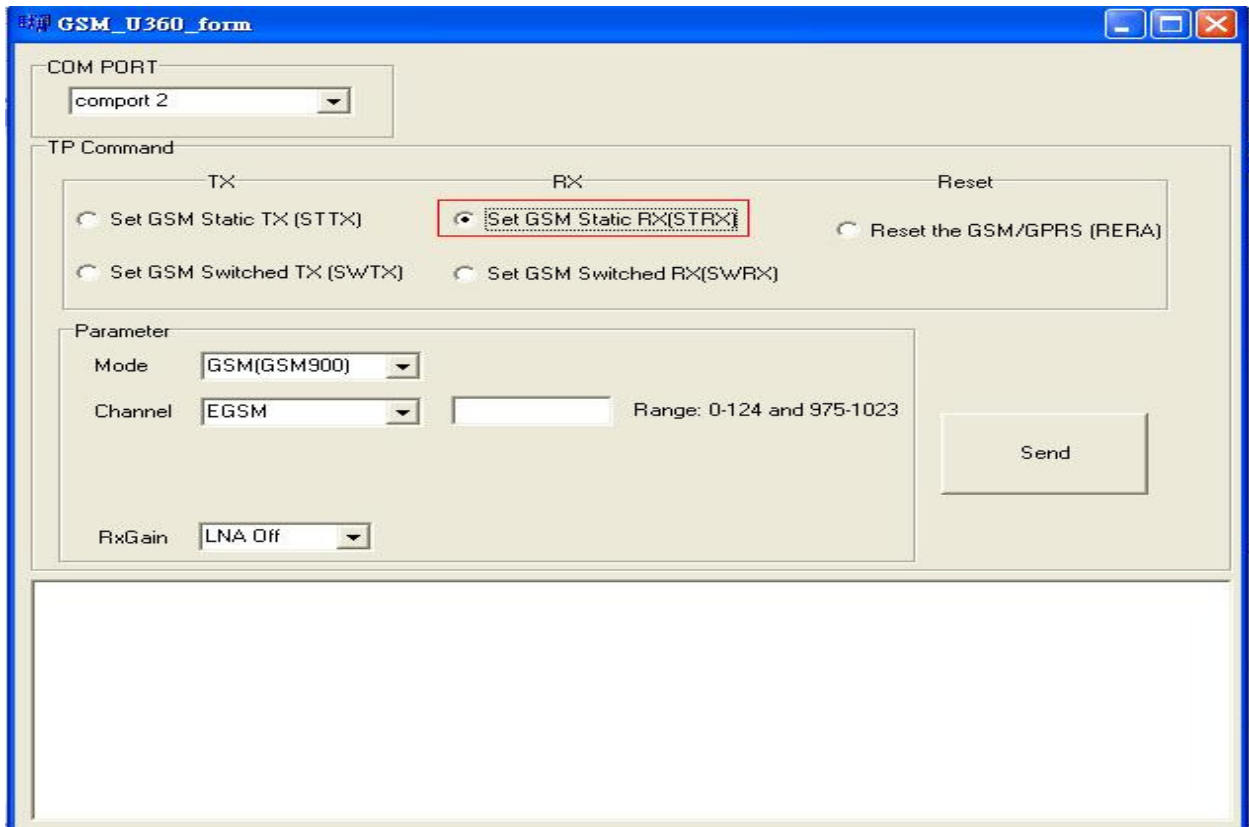
Set GSM Static TX



Set GSM Switched TX



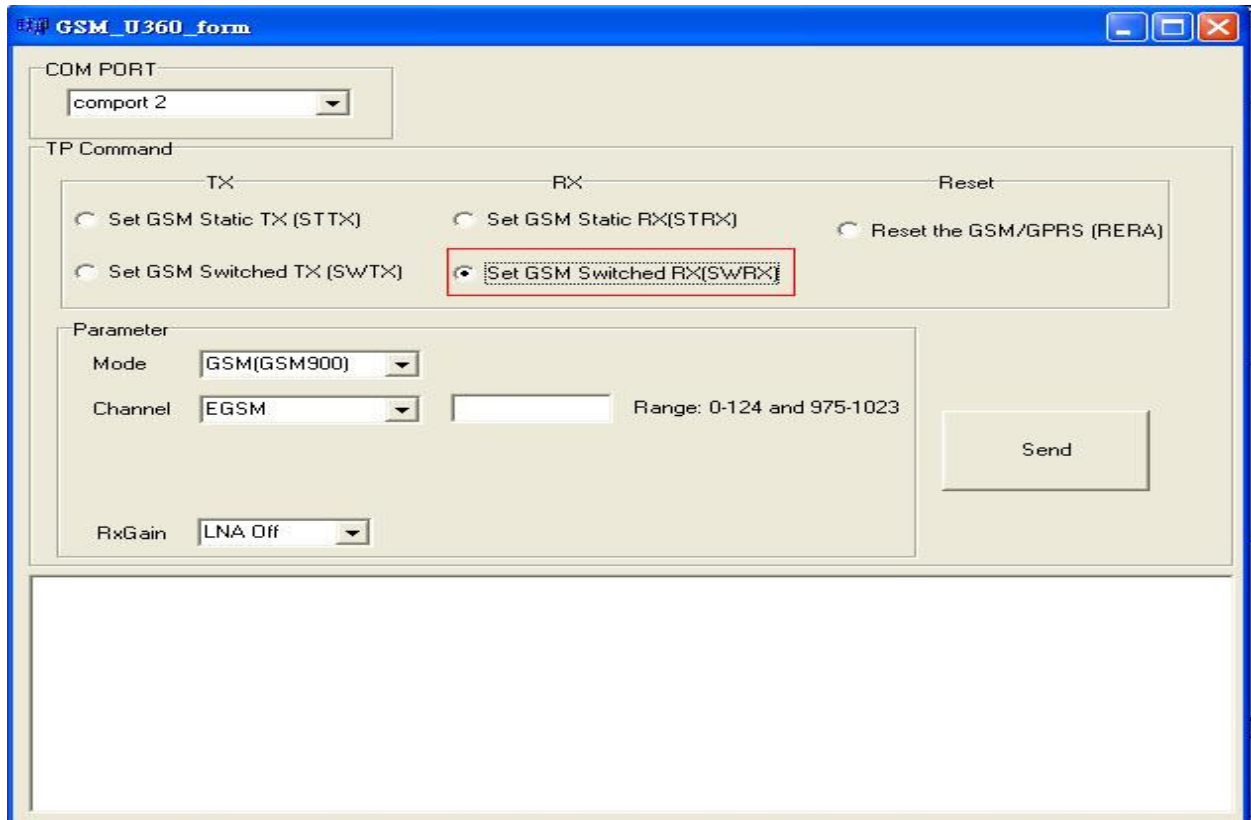
### Set GSM Static RX



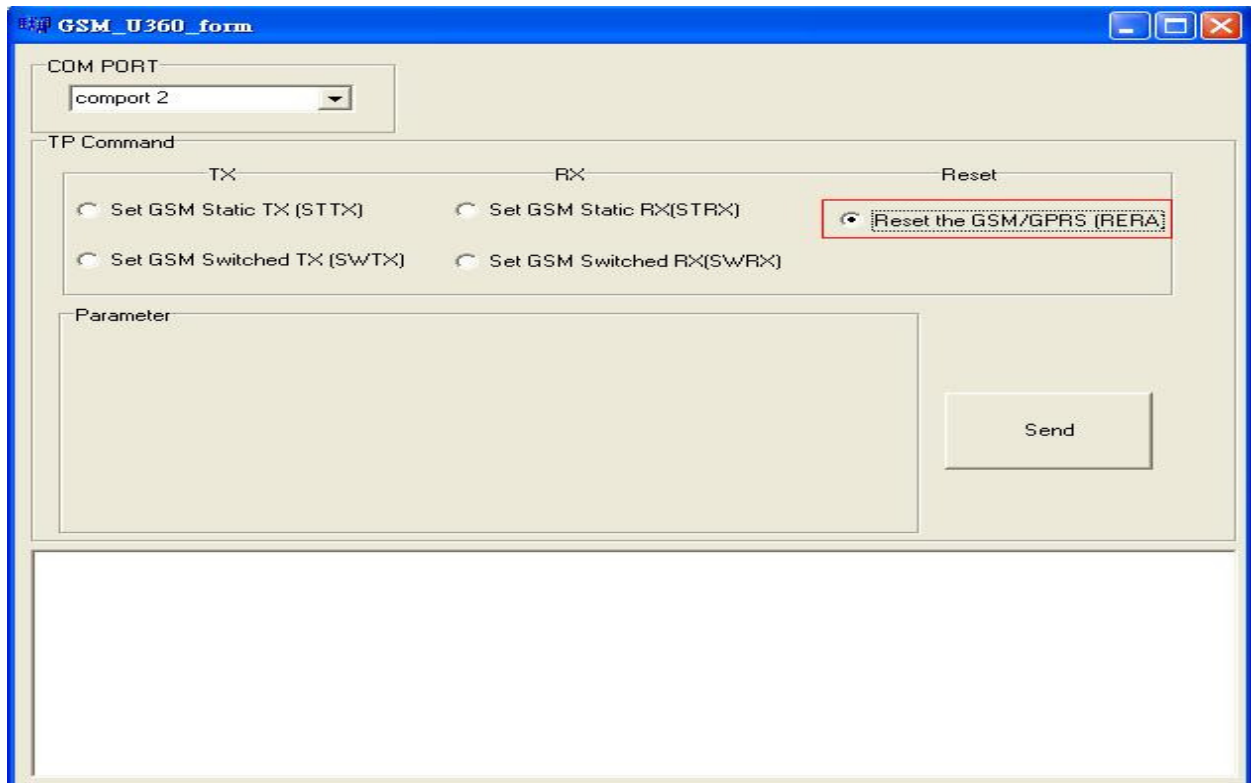
### Set GSM Switched RX



E-Tool for EMP U360



Reset the GSM Radio



Result is showed as below

**WCDMA PART**

**Step 1**

The **E-Tool V1.0** dialog box will show when you execute **P\_E\_tool.exe**.

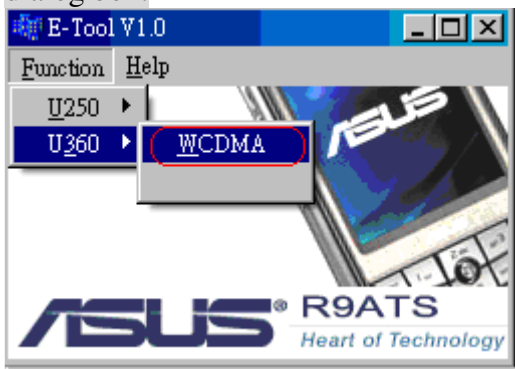


P\_E\_tool.exe



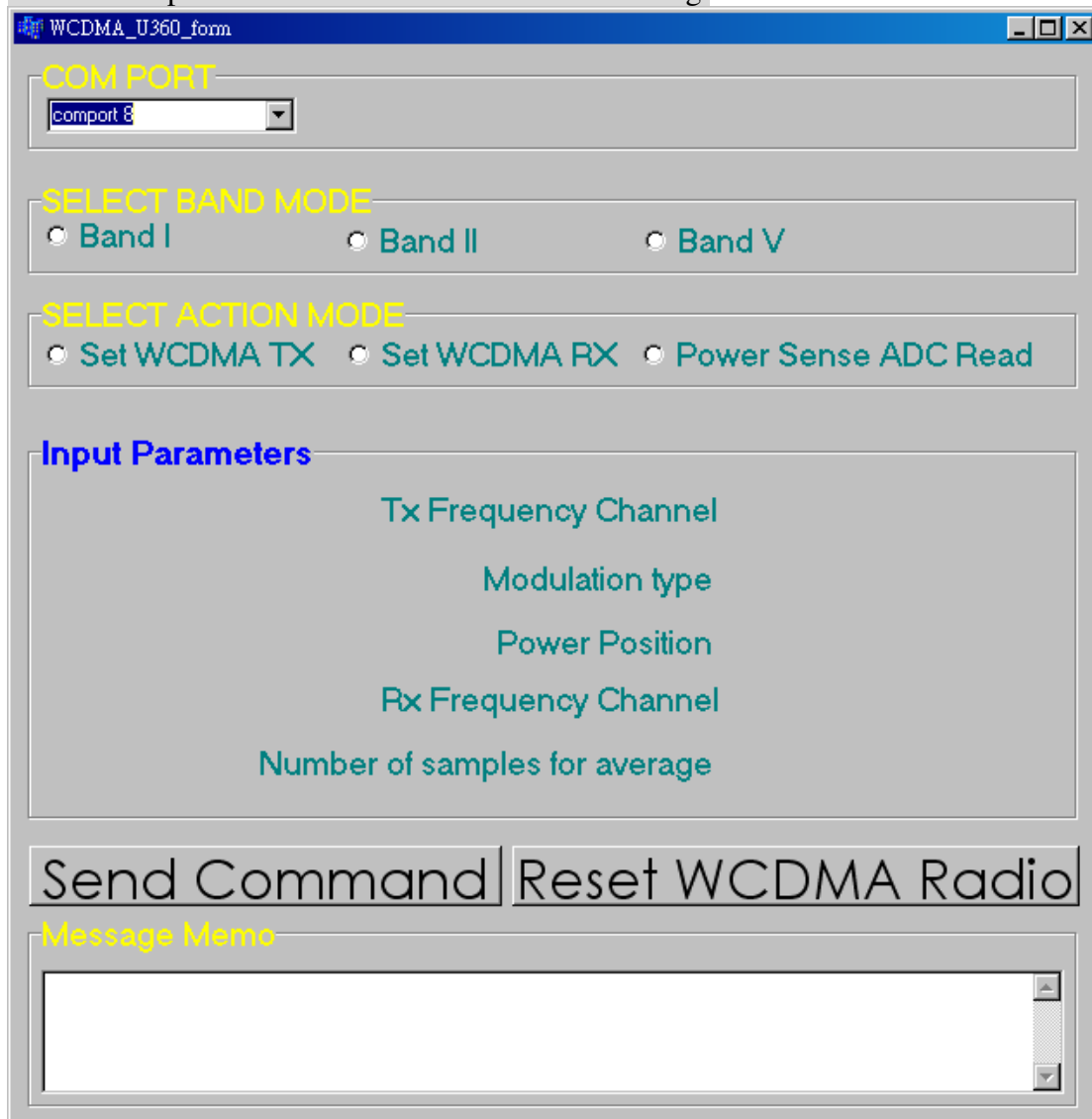
**Step 2**

Choose **Function->U360->WCDMA**, and click WCDMA to show **WCDMA\_U360\_form** dialog box.



Step 3

Choice com port umber to communicate with Mustang.



Step 4

Choice Band MODE to send the tp command

Set WCDMA TX

The screenshot shows a software window titled "WCDMA\_U360\_form" with the following sections:

- COM PORT:** A dropdown menu set to "comport 8".
- SELECT BAND MODE:** Three radio buttons: "Band I" (selected), "Band II", and "Band V".
- SELECT ACTION MODE:** Three radio buttons: "Set WCDMA TX" (selected and highlighted with a red dashed box), "Set WCDMA RX", and "Power Sense ADC Read".
- Input Parameters:** A section with several fields:
  - Tx Frequency Channel: Text box containing "9612~9888".
  - Modulation type: Dropdown menu set to "1".
  - Power Position: Text box containing "0~85".
  - Rx Frequency Channel: Text box (empty).
  - Number of samples for average: Text box (empty).
- Buttons:** "Send Command" and "Reset WCDMA Radio".
- Message Memo:** A large empty text area at the bottom.

### Set WCDMA RX

The screenshot shows a software window titled "WCDMA\_U360\_form" with the following sections:

- COM PORT:** A dropdown menu set to "comport 8".
- SELECT BAND MODE:** Three radio buttons: "Band I" (selected), "Band II", and "Band V".
- SELECT ACTION MODE:** Three radio buttons: "Set WCDMA TX", "Set WCDMA RX" (selected and highlighted with a red dashed border), and "Power Sense ADC Read".
- Input Parameters:** A section containing labels for "Tx Frequency Channel", "Modulation type", "Power Position", "Rx Frequency Channel" (with a text input field containing "10562~10838"), and "Number of samples for average".
- Buttons:** "Send Command" and "Reset WCDMA Radio".
- Message Memo:** A large empty text area for logging or notes.

POWER Sense ADC Read

The screenshot shows a software window titled "WCDMA\_U360\_form" with the following sections:

- COM PORT:** A dropdown menu set to "comport 8".
- SELECT BAND MODE:** Three radio buttons: "Band I" (selected), "Band II", and "Band V".
- SELECT ACTION MODE:** Three radio buttons: "Set WCDMA TX", "Set WCDMA RX", and "Power Sense ADC Read" (selected).
- Input Parameters:** A list of parameters: "Tx Frequency Channel", "Modulation type", "Power Position", "Rx Frequency Channel", and "Number of samples for average" (with a text input field containing "0~100").
- Buttons:** "Send Command" and "Reset WCDMA Radio".
- Message Memo:** A large empty text area for displaying results.

Result is showed as below

WCDMA\_U360\_form

**COM PORT**  
comport 8

**SELECT BAND MODE**  
 Band I       Band II       Band V

**SELECT ACTION MODE**  
 Set WCDMA TX     Set WCDMA RX     Power Sense ADC Read

**Input Parameters**

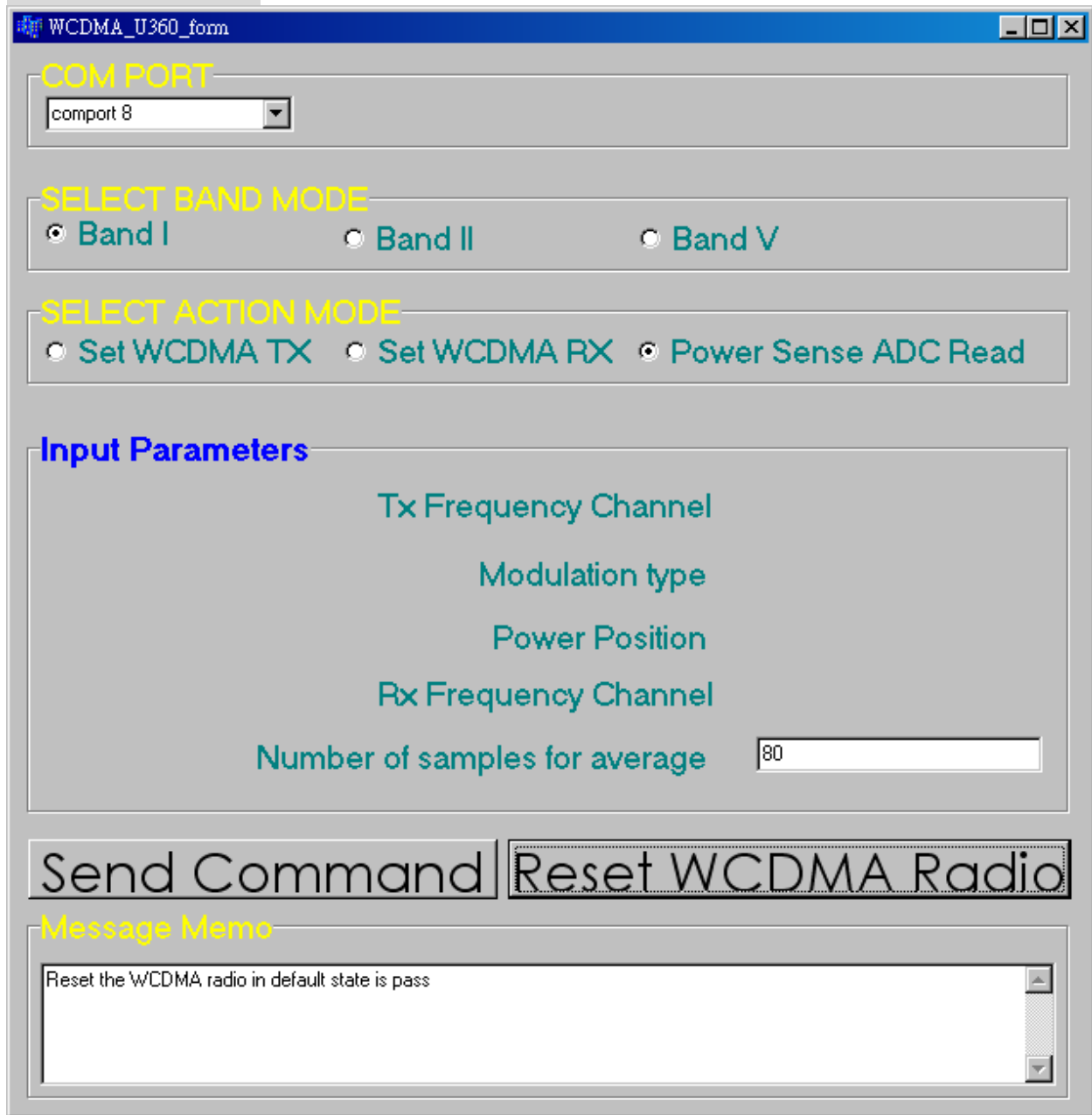
Tx Frequency Channel  
Modulation type  
Power Position  
Rx Frequency Channel  
Number of samples for average 80

Send Command    Reset WCDMA Radio

**Message Memo**  
Power Sense ADC Read is 151

Step 5

Reset WCDMA Radio



**Compliance with FCC rules and regulation:**

**This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:**

1. this device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

\*The maximum antenna gain allowed for use with this device is 0 dBi.



\*When the module is installed in the host device, the FCC ID label must be visible through a window on the final device or it must be visible when an access panel, door or cover is easily removed. If not, a second label must be placed on the outside of the final device that contains the following text: "Contains FCC ID: MSQT 200".

\*RF Exposure Warning:

In order to comply with FCC RF Exposure requirements, this device must be installed such that a minimum 20 cm separation distance is maintained between the EUT's antenna(s) and all persons during normal operation. In addition, the antenna(s) must not be co-located or operated in conjunction with any other antenna or transmitter. OEM integrators may not provide instructions to end-users pertaining to installation or removal of the EUT.