

Preface

This document is for how to use the GPIO of the mobile.

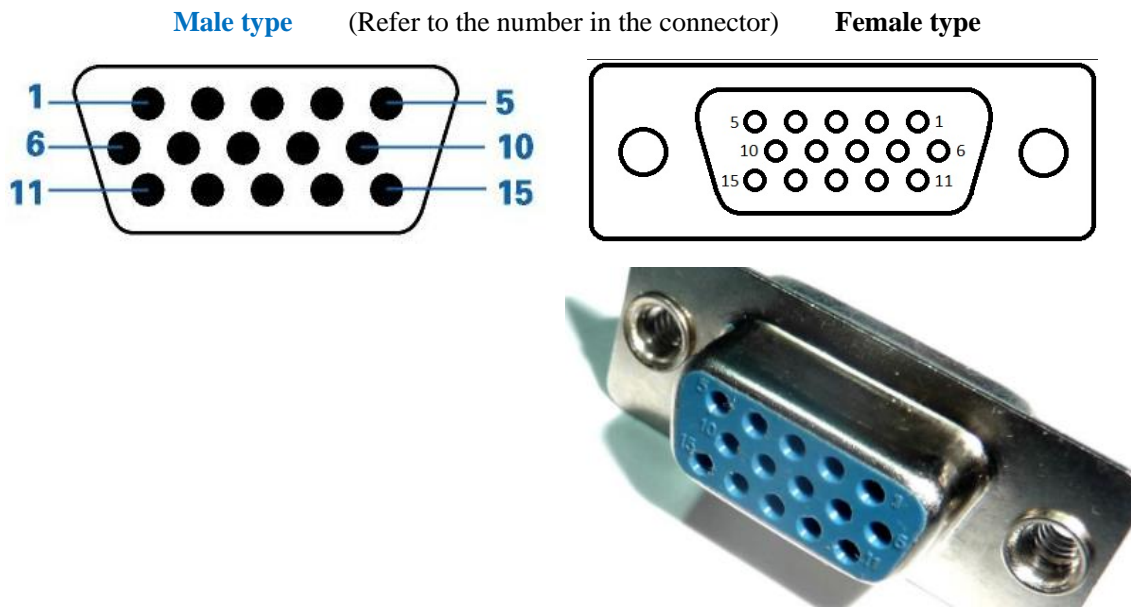
If had any questions, please ask your dealer for further help.

Table of contents

1 DB15.....	2
1.1 15-PIN CONNECTOR FOR MOBILE RADIO	2
1.2 MAKE A DB-15 UART CABLE	3
2 INPUT GPIO.....	4
3 OUTPUT GPIO.....	5
3.1 OUTPUT AN ACTIVE LEVEL BY DTMF SIGNALING RECEIVED.....	6

1 DB15

1.1 15-Pin Connector for Mobile Radio



Pin No.	Name	Function Description
1	VOL_OUT	Received audio output
2	EXT-MIC	External MIC signal input
3	IGN IN	Ignition input
4	DEO	Received signal demodulation output
5	EXT_PTT	External PTT
6	Port1	Programmable auxiliary port
7	Port2	Programmable auxiliary port
8	GND	Gnd
9	Port3	Programmable auxiliary port
10	5C	DC+5V
11	USB_D-	USB-
12	USB_D+	USB+
13	DTMFIO	DTMF signal input or output
14	GPS-TXD	GPS serial data output
15	GPS-RXD	GPS serial data input

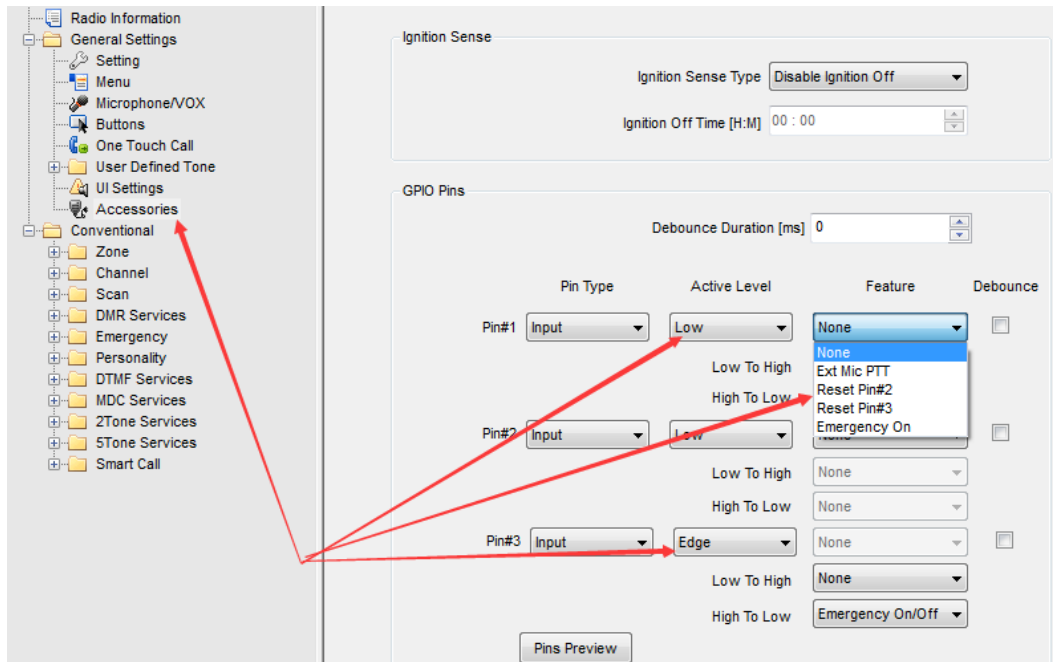
1.2 Make a DB-15 UART cable



Some specifications

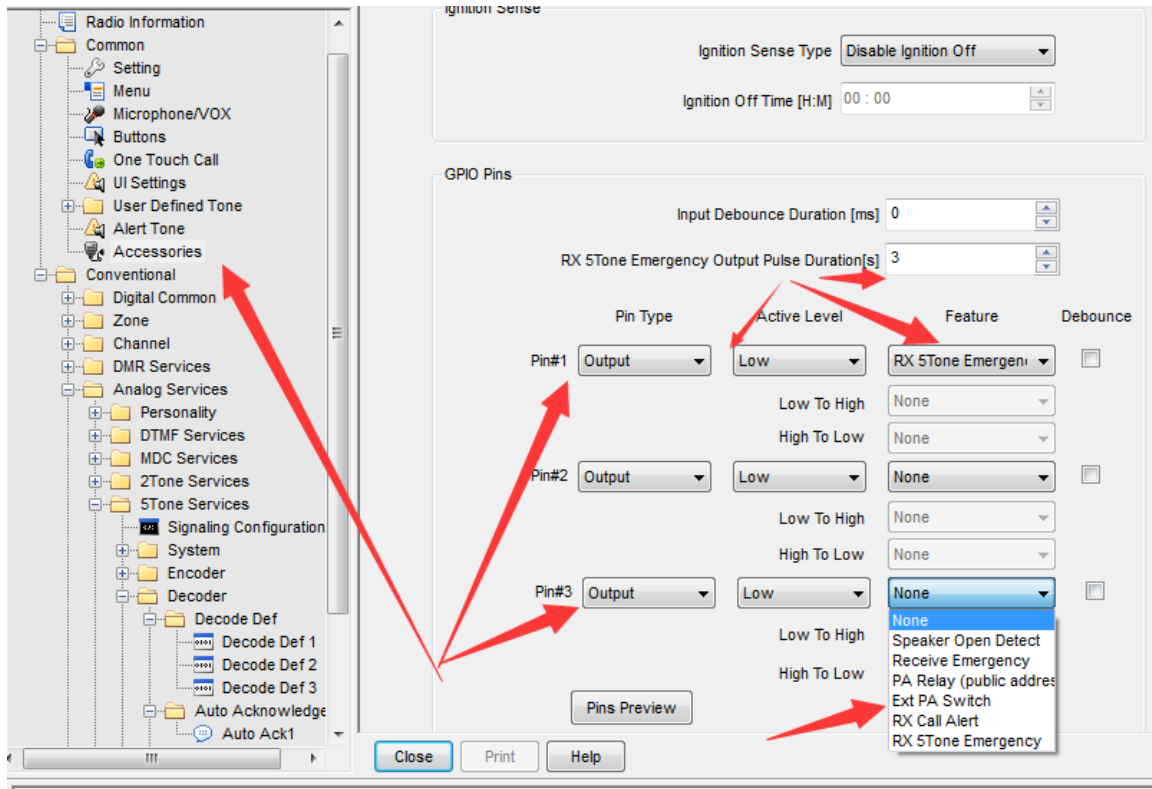
- | | |
|--|-------|
| 1. mV peak to peak for audio out | 500mV |
| 2. mV peak to peak for external MIC signal input | 80mV |
| 3. mV Received signal demodulation output | 300mV |
| 4. External PTT active high or low | LOW |

2 Input GPIO



- 1) None: No feature
- 2) Ext Mic PTT: Externl PTT to start/stop the Transmission.
- 3) Reset Pin#2: If the corresponding pin active, the radio will reset the Pin#2 to Inactive level
- 4) Reset Pin#3: If the corresponding pin active, the radio will reset the Pin#3 to Inactive level
- 5) Emergency On: If the corresponding pin active, the radio will start “Emergency mode”.
- 6) Emergency On/off: If active, the radio will start/exit “Emergency mode”, i.e. in the above, the first edge trigger will start the emergency and the second trigger will exit the emergency.

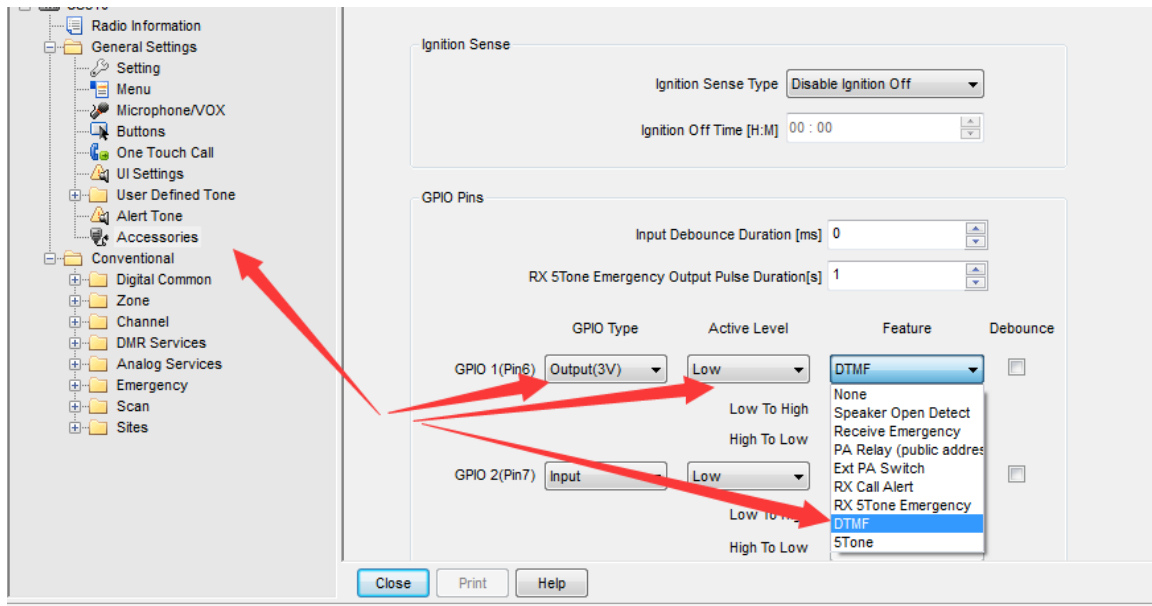
3 Output GPIO



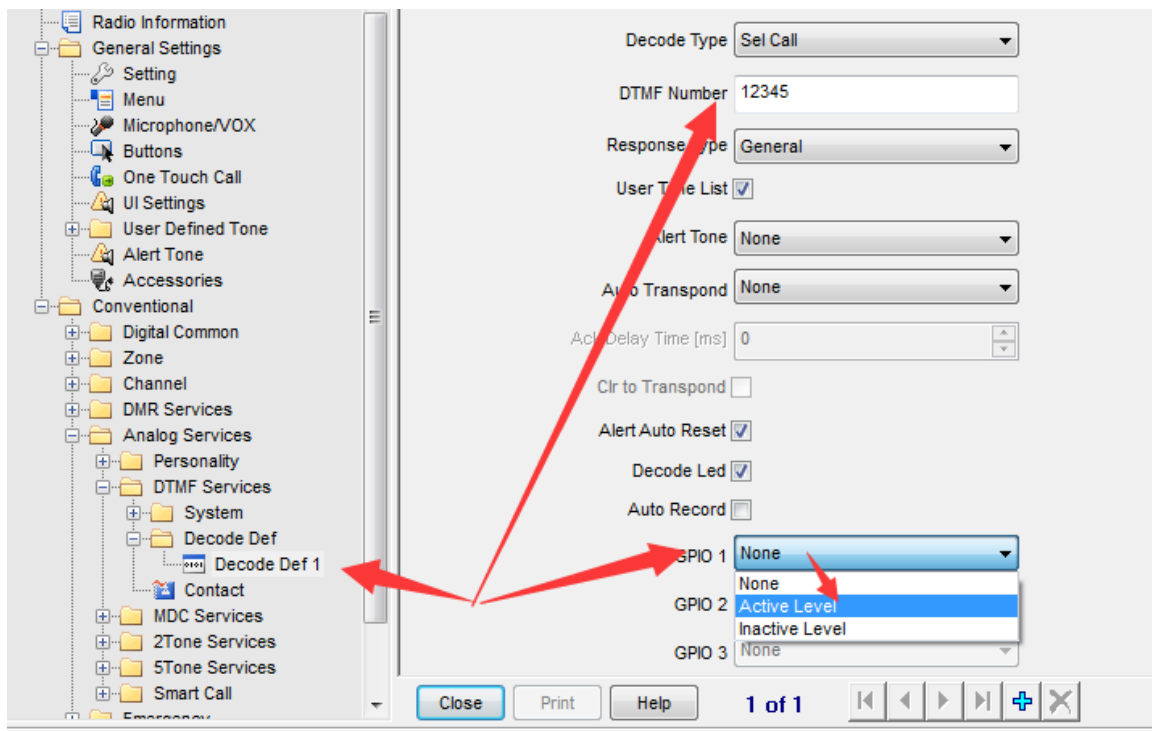
- 1) None: No feature
- 2) Speaker Open Detect: If the squelch open(speaker unmute), the GPIO will output the active level.
- 3) Receive Emergency: If the radio receive a remote Emergency, Output the active level.
- 4) PA relay(Public address): If the enabled the PA, Output the active level.
- 5) RX Call Alert: If received a Call Alert, Output the active level.
- 6) RX 5Tone Emergency: If received a 5-tone Incoming Emergency, Output an active pulse.

3.1 Output an active Level by DTMF signaling Received

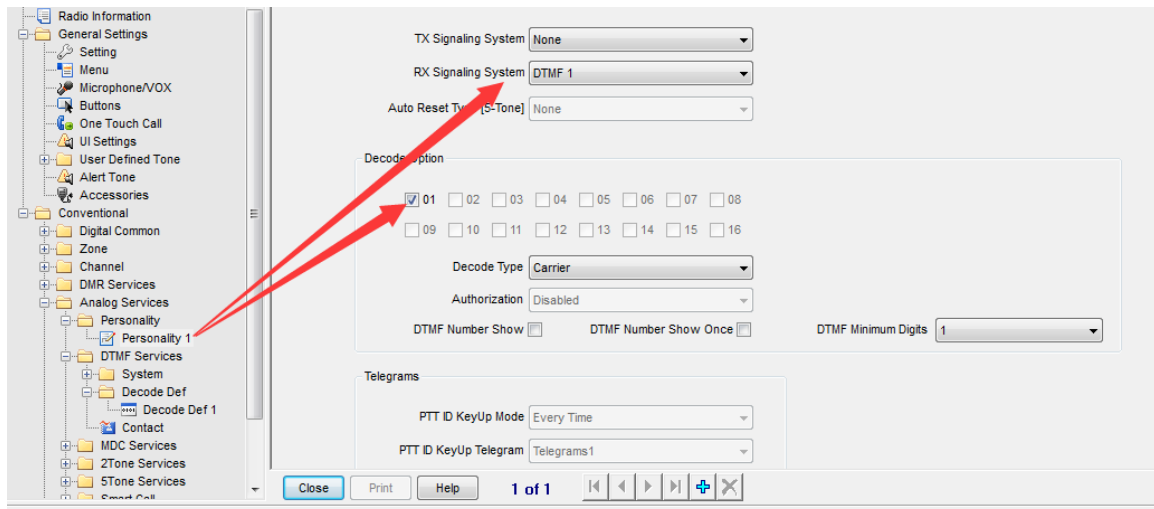
1) set a GPIO pin



2) set a DTMF decode definition



3) Set a Personality for an analog Channel to use



4) Set a certain channel to use that Personality

