

Question #1: As indicated in the operational description, EUT is a Transceiver not just a Transmitter. When alarm is triggered, this transceiver will send a digital code (page) to the remote unit. I will change the device type from Transmitter to Transceiver.

Question #2: What is the receiver's sensitivities ?

Answer : The receiver sensitivity is around -115dBm ~ -118dBm at antenna port.

Question #3: What is operation distance that this transceiver will be able to communicate with the remote unit ?

Answer : The operation distance is around 150meters at open field.

Question #4: Please inform the mode of operation during the final radiated emission tests. How do you achieve continuous transmission ?

Answer :

1. Remote

Test program is embedded in the CPU (U2 PIC16LC924) and it can be used for continuous transmission.

1-1. Tx test

Test jumper (J1) on the PCB should be connected by soldering for continuous transmission, Which is connected to the pin 22 of CPU (U2).

When connected, Tx data are generated continuously by CPU and they are fed to base of Q3.

The Q3 turn on and off of the power supply of oscillator, which enables to make ASK signal.

1-2. Rx test

Test jumper (J2) on the PCB should be connected by soldering to enable Rx circuit.

When connected, the CPU (U2) supply DC3V to the RF amplifier by using pin 7 and supplies 0V to the pin 9 of U1(ASK receiver) by using U2 pin 14, which enable Rx circuit.

2. Base

Test jig is used for continuous transmission of Base. Test jig has same role as that of main controller.

2-1. Tx test

2-1-1. With modulation Tx

When SW1 of test jig turned on, the power is supplied via pin 11 of U1 to the Tx circuit of Base and Tx data is supplied to the circuit to make ASK signal.

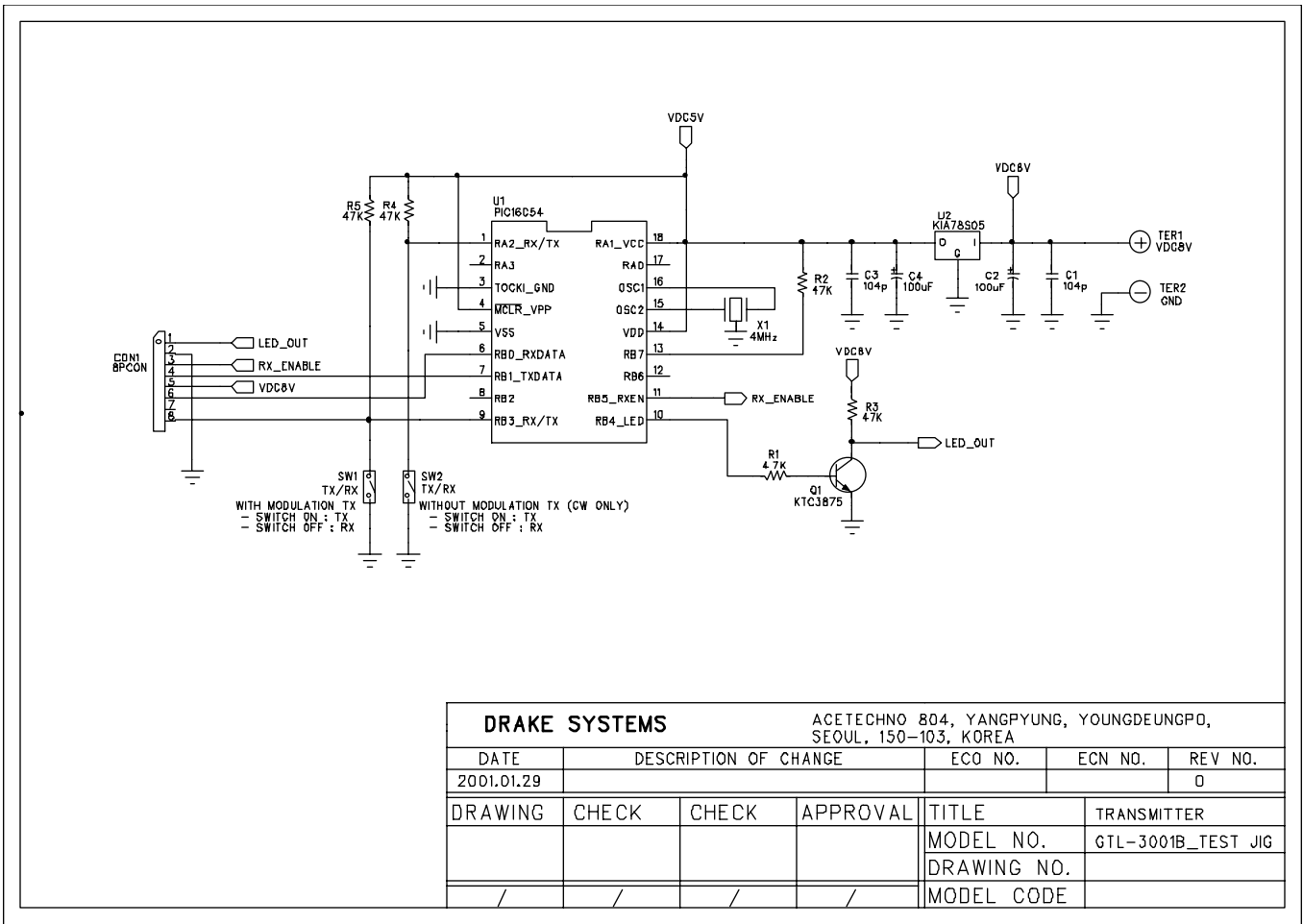
2-1-2. Without modulation Tx

When SW1 of test jig is turned off and SW2 is turned on, the power is supplied via pin 11 of U1 to the Tx circuit of Base and Tx circuit is enabled.

2-2. Rx test

Rx circuit is enabled, When SW1 and SW2 of test jig is turned off.

--- Test Jig Schematic ---



Question #5 : In the page 5 of test report, you indicated that this device is manually operated. Please justify it.
 Answer : The main control unit has two operating mode. One is paging mode when it senses the trigger such as shock sensor and door open. The main control unit transmits RF signal to the remote unit for 3.5 seconds automatically to inform the intrusion.
 The other is echo-back mode when it receives an order from remote unit such as door lock, Door unlock, trunk open, remote start and so on. The main control unit transmits RF signal(echo-Back signal) to the remote unit for 0.35 seconds at this mode.