Operational Description

BLE TPMS is an advanced Wireless Tire Pressure Monitoring System (TPMS) using the latest Bluetooth 4.0 that works directly with your Android device, and it works simultaneously with your smartphone.

GENERAL DESCRIPTION OF EUT

PRODUCT	BLE TPMS
MODEL NO.	TP001
POWER SUPPLY	DC power source battery : DC 3.0V
CABLE	NA
FREQUENCY BAND	2.4 GHz (Bluetooth V4.0 Low Energy, no BR/EDR)
CARRIER FREQUENCY	2.402 GHz ~ 2.480 GHz
NUMBER OF CHANNEL	40
RATED RF OUTPUT POWER	-10.33 dBm
MODULATION TYPE	GFSK
MODE OF OPERATION	Duplex
ANTENNA TYPE	Chip Antenna
ANTENNA GAIN	0.50 dBi
OPERATING TEMPERATURE RANGE	-20 ~ 50°C

For Tx-1, Tx-2, Tx3 and Standby test modes：

1. EUT was connected to PC via a special IC socket which was provided by the customer.
2. A transmission control software from Texas Instruments was downloaded and installed to the support desktop PC.
3. Set the transmitting power level to the highest allowable setting.
4. Record the radiated transmissions readings.

For Link test mode：

1. 4 EUT samples were pre-programmed to transmit every couple of seconds in order to simulate normal operating conditions.
2. Record the radiated transmissions readings.