GQS12 Theory of Operation

◆ GQS12 :
- MT712LR-III module will send signal to MCU when it detect and scan bar code.
- MCU will encode the signal and send to WUSB controller when MCU receives the signal from MT712LR-III or detects keypad was typed.
- WUSB controller will modulate the signal from MCU by GFSK modulation type.
- Through the 2.4GHz RF circuit transmit the modulation signal.

◆ DRD1 receiver :
- WUSB will demodulate the signal from RF circuit when receives the modulation signal. And responds signal to MCU.
- MCU decodes the signal from WUSB into USB format and sends to host system.

MT712LR-III : bar code scanner module

MCU : Micro Control Unit

WUSB : wireless Universal Serial Bus

GSFK : Gaussian Frequency Shift Key

RF : Radio Frequency