Operational Description

The module, U9, is a UART to WIFI module, used for data transparent transmission. It integrates an industrial ARM Cortex-M4 core processor, operation frequency is 80MHz. This module supports WIFI protocol and TCP/IP protocol. User can achieve the function of UART devices (UHF RFID Module UM92) connecting to Internet with simple configuration.

The product integrated a WIFI module, which is based on TI CC3200 chipset that provides full function of 802.11b/g/n. The module is designed as single antenna for Wi-Fi. The modulation type is DSSS, CCK, OFDM. The WIFI of SW-0102 operating frequency is 2412~2472GHz.

In addition, the product integrated a UHF RFID module UM92, which is based on PHYCHIPS PR9200 chipset that provides function of ISO 18000-6C/EPC Global Gen II. The module is designed as two antennas. And its modulation type is DSB-ASK. The UHF RFID of SW-0102 operating frequency is 902~928MHz.

It does not support any non-US channels in all the operational mode(s) and all non-US frequencies and country code selection are disabled through proprietary software and user cannot modify.
It also can NOT be activated by users of the product by any means.

The below are specification of this product

Product name	EGLTEC 2-Port UHF RFID Reader - Wireless		
Model Number	SW-0102		
EUT Functions	UHF：ISO 18000-6C/EPC Global Gen II WLAN：IEEE 802.11b/g/n		
EUT Power Rating	Powered from AC Adapter I/P: 100-240VAC, 50/60Hz, 0.8A O/P: 12 VDC, 1.0A		
Frequency Range	UHF：902 ~ 928 MHz WLAN：2400~2483.5 MHz		
Transmit Power	**Mode**	**Frequency Range**	**Output Power (W)**
	ISO 18000-6C/EPC Global Gen II	902~928 MHz	0.273W
	IEEE 802.11b	2437MHz	0.0157W
	IEEE 802.11g	2437MHz	0.0135W
	IEEE 802.11n	2437MHz	0.0102W
Number of Channels	*UHF：50 Channels *WLAN：11 Channels		
Modulation Type	*UHF：DSB-ASK (FHSS) *WLAN：Dipole antenna(DSSS, CCK, OFDM)		

Tune up power：The output power setting of EUT is set in the factory and followed the max level in below.

Default setting
UHF
ISO 18000-6C/EPC Global Gen II (902~928 MHz)：23 dBm± 0.1 dB
WLAN
IEEE 802.11b/g/n (2400~2483.5 MHz)：17.25 dBm± 0.1 dB