

Operational Description

The chip, U9, is Ethernet to UART Transparent Transmission IC, it has Built-in TCP/IP protocol stack, and supports serial baud rate up to 921600bps, which can be easily configured by host PC software. It needs a 30MHz crystal X1 of the reference frequency. And This chip is responsible to convert the serial data of UHF RFID Module UM92 to network data.

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 SF-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 – Fixed		
Model Number	SF-0102		
EUT Functions	ISO 18000-6C/EPC Global Gen II		
EUT Power Rating	Powered from AC Adapter I/P: 100-240VAC, 50/60Hz, 0.8A O/P: 12 VDC, 1.0A		
Frequency Range	902 ~ 928 MHz		
Transmit Power	Mode	Frequency Range	Output Power (W)
	ISO 18000-6C/EPC Global Gen II	902 – 928 MHz	0.2897
Number of Channels	902 – 928 MHz: 50 Channels		
Modulation Type	DSB-ASK		
baud-rate	Up to 115200 bps		

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): 24.62 dBm ± 0.1 dB