

## Operational Description

This product, SWR-300, is a 2.4GHz RF DONGLE. The product operates in 2400 to 2483.5 MHz band. This product uses the adaptive frequency hopping spread spectrum technology. The number of hopping channels available is 64 and four hopping channels are used for RF communication. If an error in RF communication occurs or radio interference is detected at the one of the four hopping channels, the four channels are hopped to another hopping positions.

Channel Number	Operating frequency (kHz)	Remark
1	2403499.969	Lowest channel
2	2404712.372	
3	2405924.774	
...	...	...
32	2441084.442	
33	2442296.844	Center channel
34	2443509.247	
...	...	...
62	2477456.512	
63	2478668.915	
64	2479881.317	Highest channel

### Communication Specification

Frame time (period): 8 ms

Transmission duration: approximately 720  $\mu$ s

Network method: Time division multiple access

Data rate: 250 Kbps

### Number of bytes per packet

Preamble: 32 bit

Sync word: 32 bit

Network ID: 32767(15 bit)

USB Dongle (Base station): 12 byte

Keyboard: 11 byte

Mouse: 8 byte

### Power source

The product is powered from USB interface, DC 5V.

### Antenna

The product has an integrated PCB patch antenna. No external ground is required.