

2009-09-22

Reference:

Attn: Reviewing Engineer

Federal Communications Commission
7435 Oakland Mills Road
Columbia, MD 21046

Operational Description of cB-0925-01
FCC ID: PVH0925
IC: 5325A-0925

This Bluetooth modular transmitter can be integrated in different end-products.

Bluetooth is a short-range radio link intended to be a cable replacement between portable and/or fixed electronic devices.

Bluetooth operates in the unlicensed ISM Band at 2.4 GHz. In the US a band of 83.5 MHz width is available. In this band, 79 RF channels spaced 1MHz apart are defined.

The channel is represented by a pseudo-random hopping sequence through the 79 channels. The channel is divided into time slots, with a nominal slot length of 625µs, where each slot corresponds to different RF hop frequencies. The nominal hop rate is 1600 hops/s. All frequencies are equally used. The average time of occupancy is 0.3797 s within a 30 second period. The symbol rate on the channel is 1Ms/s.

Parameter Data

Bluetooth radio	ST STLC2500DB
Bluetooth base band controller	STM32F100RCT6 (cB-0925-01-0-0x) and STM32F101RCT6 (cB-0925-01-1-0x)
RF output power	Class 1, max 3.9dBm (2.45mW)
Receive sensitive level	-90dBm
Receive input level (max)	+15dBm
Output frequency	2.402 –2.480 GHz, ISM band
Bluetooth stack	Embedded host stack
Bluetooth qualification	2.1 + EDR

Regards

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