

Attn: Reviewing Engineer

Federal Communications Commission  
7435 Oakland Mills Road  
Columbia, MD 21046

## Operational Description of cB-0719-02

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.

Use of the equipment: wireless Bluetooth transmitter module for OEM integration

Equipment category: short range device

Frequency / Frequency range: 2402 – 2480 MHz

Maximum transmitter output power: 19 dBm

Number of channels and channel separation: 79 / 1 MHz

Modulation: FHSS

Information on antenna: external (please refer to antenna data sheets)

Regards



Mats Andersson, CTO connectBlue