Hopping Information – Bluetooth

1 Hopping Range

Hereby we declare t hat the maximu m range frequency of this device is: 2.400-2.4835GHz.

This is according t he Bluetooth Core Specification BT4.0 for devices which will be operated in the USA.

2 Hopping Sequence

Example of a 79 hopping sequence in data mode: 35,14,21,44,23,42,53,46,55,48,40,59,72,29,76,31,08,73, 07,65,09,45,60,39,58,13,47,11,77,52,35,50,65,54,67,56,69,62,71,64,37,25,27,66,57,70,24,61,78,63,10,41,05,43,19,43,64,68,02,71,06,01,51,03,55,05,03,66,53,49,26,46,

3 Receiver input bandwidth

The input bandwidth of the receiver—is 1MHz. In every connection one Bluetooth device is the master and the—other one is the slave. The master determines the hopping sequence. The—slave follows this sequence. Both devices shift between RX and TX ti me slot according to the clock of the master.

Additionally the type of connection is set up at the beginning of the connection. The m aster ad apts its hopping frequency and its TX/RX timing according to the packet type of the connection. Also the slave of the connection will use these settings. Repeating of a packer has no influence on the hopping sequence. The hopping sequence generated by the master of the connection will be followed in any case. That means a repeated packet will not be send on the same frequency, it is send on the next frequency of the hopping sequence.