BLUETOOTH CLASS 2 MODULE

BLUETOOTH BOARD OPERATIONAL DESCRIPTION

SPG Bluetooth Class 2 Board Module is provided with integrated RF module for fast implementation in various applications to enable electronic devices to communicate wirelessly with other Bluetooth enabled devices. It is a true saver for manufacturers to provide time-to-market products.

With three different types of interface, (USB/UART/PCM), the module can be used in applications such as Notebook PCs and accessories, PDA, Access Points, Headphones and PC peripherals, etc.

Bluetooth operates in the unlicensed ISM Band at 2400,0 ÷ 2483,5; 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 devided 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.

APPLICATIONS

- Personal Computers accessories
- Laptop PCs and accessories
- Hand held devices and accessories
- Internet access points

FEATURES

- Bluetooth Specification V.1.2 compliant
- Supports USB/UART/PCM (Pulse Code Modulation) interfaces
- Bluetooth Protocol layers support up to HCI
- Output Power Class 2
- Optimized Link Manager and Control
- Working distance up to 10 meters
- Support Wireless LAN coexistence