

Operation Principle

The Bluetooth Modular designed with a transmitting method of Frequency Hopping spread spectrum is for local area network operation, which operates at 2.4GHz ISM band.

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 where each slot corresponds to different RF hop frequencies. The nominal hop rate is 1600 hops/s.

Technical data

Bluetooth:	Bluetooth 2.0 EDR
Data transfer rate:	Up to 3Mbps
Frequency range:	2.4 - 2.4835 GHz (ISM Band)
Antenna:	Integrated
Modulation:	GFSK / $\pi/4$ DQPSF / 8DPSK
Power supply:	3,3V