

Bluetooth technology

Introduction

- Wireless link technology
- Short-range frequency(RF) technology
- Range of bluetooth
- Harald "Bluetooth" Blaaland
- Wirelessly synchronize and transfer data

Bluetooth devices

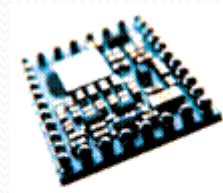
- Bluetooth dongle



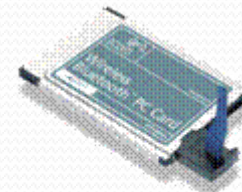
- Bluetooth headset



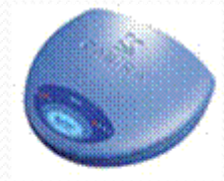
- Other examples



Bluetooth radio
from Ericsson, \$20



Bluetooth PC Card
from 3Com, \$120



Casira from CSR,
\$5000

Technical features

- The base-band processor, a radio and an antenna
- 10 – meter bubble
- Frequency hopping spread spectrum(FHSS)
- Achieves its goal by embedding tiny, inexpensive, short-range transceivers into the electronic devices
- Radio band: 2.45 GHz, data speed: 721Kbps
- Battery life
- Bluetooth radio technology
- Bluetooth guarantees security at the bit level
- The Bluetooth baseband protocol



Bluetooth vs WiFi

Bluetooth Technology Models & Applications

- HomeRF
- The Federal Aviation Administration (FAA)
- Personal Area Networking (PAN)
- Automatic background synchronization
- Send photos, video clips etc.
- Meeting and conference
- Automobiles
- Check e-mails
- Supports generic object exchange (OBEX)

References

- <http://www.exforsys.com/tutorials/wireless/what-is-bluetooth-technology.html>
- <http://www.exforsys.com/tutorials/wireless/bluetooth-technology-models-and-future.html>
- <http://www.exforsys.com/tutorials/wireless/how-bluetooth-technology-works.html>
- <http://en.wikipedia.org/wiki/Bluetooth>