

ユビキタスコンピューティング 3回目 (Bluetooth)



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Bluetoothにおける変調方式

- 1次変調は、2値Gaussian FSK (0.5BTガウシアンフィルタを用いた2FSK)
- 通信速度は1Mbps
- 拡散変調として周波数ホッピングスペクトル拡散通信を使用
 - 一定時間毎に搬送波となる周波数帯を切り替える(ホッピングすることにより、等価的にスペクトル拡散を実現)
 - 625 μ 秒毎にホッピング(1600ホッピング/秒)
- 直接拡散方式より高拡散率の変調信号を作りやすい
- 機密性が高い、妨害波排除能力が高い

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Three in One Phone

Use the same phone wherever you are

- When you're at the office, your phone functions as a interphone.
- At home, it functions as a portable phone (fixed line charge).
- And when you're on the move, the phone functions as a mobile phone (cellular charge).



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Internet Bridge

Surf the Internet regardless of the connection

- Use your laptop to surf the Internet wherever your are, if you're cordlessly connected through a mobile phone (cellular) or through a wire-bound connection (PSTN, ISDN, LAN, xDSL).

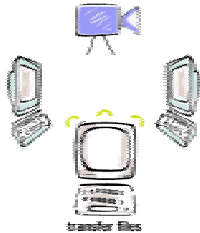


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Interactive Conference

Connect all participants for instant data exchange

- In meetings and conferences, you can share information instantly with all participants, and without any wired connections.
- You can also cordlessly run and control, for instance, a projector.



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Ultimate Headset

- A cordless connected headset keeps your hands free at all times
- Connect your headset to your mobile PC or any wired connection to keep your hands free for more important tasks when you're at the office or in your car.



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Portable Speaker Phone

Use your portable PC as a speaker phone wherever you are

- Connect cordless headsets to your portable PC and use the portable PC as a speakerphone regardless of whether you're in your office, in your car or at home.



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Briefcase Trick

Use e-mail while your portable PC is still in the briefcase

- When your portable PC receives an e-mail, you'll get an alert on your mobile phone.
- You can also browse all incoming e-mails and read those you select in the mobile phone's display.



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▶ Forbidden Message

- Compose e-mails on your portable PC while you're on an airplane
- As soon as you've landed and switched on your mobile phone, all messages are immediately sent.



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▶ Automatic Synchronizer

Automatic background synchronization keeps you up-to-date

- Automatic synchronization of your desktop, portable PC, notebook (PC-PDA and PC-HPC) and your mobile phone.
- For instance, as soon as you enter your office the address list and calendar in your notebook will automatically be updated to agree with the one in your desktop, or vice versa.



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▶ Instant Postcard

Send instant photos and video clips from any location

- Cordlessly connect your camera to your mobile phone or any wire-bound connection.
- Add comments with your mobile phone, a notebook or your portable PC and send them instantly to a receiver anywhere in the world.
- Suitable for professional as well as personal use.



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▶ Codeless Desktop

Connect all peripheral tools to your PC or to the LAN

- Cordless connection of your desktop or laptop to printers, scanners and to the LAN.
- Increase your sense of freedom in everyday work by cordless connection of your mouse and keyboard to your PC.



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▶ 携帯電話 + 無線

Nokia社(1999年)

Bluetooth(局所的な無線通信)によりヘッドホン(マイク付き)と携帯電話を通信させる



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▶ Bluetooth Pen

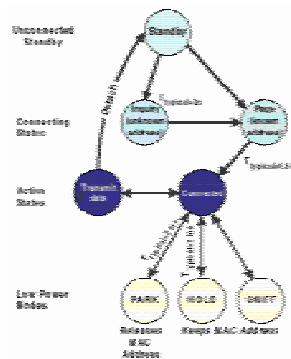
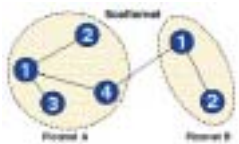
A bluetooth pen allows you to communicate over the Internet with only pen and paper, without cables.



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▶ Bluetooth

Bluetooth



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