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Learn About Bluetooth Technology

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The Advantages of Bluetooth

► Main Reasons to Use a Bluetooth Device:

1. Bluetooth Devices are Wireless.

If you navigate through the rest of our site you will learn that there are tons of advantages/benefits when using wireless devices. In addition to improving safety as a result of eliminating the clutter of wires and associated hazardous connections, wireless technology also offers many convenient advantages. For example, when you are traveling with your laptop, PDA, MP3 player and other devices, you no longer have to worry about bringing along all of your connecting cables.

For a more detailed list of the advantages associated with wireless connectivity, click on: [Wireless Advantages](#)

2. Bluetooth Technology is Inexpensive.

Bluetooth technology is cheap for companies to implement, which results in lower over-all manufacturing [Costs](#). These savings are then passed on to you, the consumer. The end result: Bluetooth devices are relatively inexpensive.

3. Bluetooth is Automatic.

Bluetooth doesn't require you to think about setting up a connection or to push any buttons. When two or more Bluetooth devices enter a range (Up to 30 feet) of one another, they automatically begin to communicate without you having to do anything. Once the communicating begins, Bluetooth devices will setup [Personal Area Networks or Piconets](#). The best part is: The devices take care of the entire setup process, and you can go about your business.

4. Standardized Protocol = Interoperability

Since Bluetooth is a standardized wireless specification, a high level of compatibility among devices is guaranteed. The Bluetooth specification uses and defines various profiles. Every Bluetooth profile is specific to a particular function. For instance, when a Bluetooth enabled cell phone and a Bluetooth headset (Both with the same profile) are communicating with one another, both will understand each other without the user having to do anything, even if the devices are of different models/makes.

[Serial Bluetooth](#)

Bluetooth, Serial RS-232 adapters Worldwide shipping, online order

[OEM GPS Receiver module](#)

Small OEM GPS receiver module for tracking -155dBm indoor signals

To learn more about profiles, click [Bluetooth Profiles](#)

5. Low Interference (If Any)

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Bluetooth remote control

Control electronics and computer software from your PDA or cellphone
www.flexipanel.com

Bluetooth OEM Modules

KC Wirefree integration engineering We make Bluetooth work for you.
www.kcwirefree.com

Bluetooth Stereo Headsets

Mobile/Hi-Fi enable, Dongles for NANO i-PQD PSP MP3 PC TV PDA
ever-e.com/Distributor-wa

Bluetooth 2.0 Module

Class1, to 300m range, EDR Integrated antenna or UFL connector
www.bluegiga.com

Polls

How many Bluetooth products do you own?

- ☐ 0
- ☐ 1
- ☐ 2
- ☐ 3
- ☐ 4
- ☐ 5+

Bluetooth devices avoid interference with other wireless devices by:

- a) Using a technique known as spread-spectrum frequency hopping, and
- b) Using low power wireless signals.

6. Low Energy Consumption

As stated above, Bluetooth uses low power signals. As a result, the technology requires little energy and will therefore use less battery or electrical power. Obviously, this is a great benefit for mobile devices because Bluetooth won't drain the life of your device's battery.

7. Share Voice and Data

The Bluetooth standard allows compatible devices to share both voice and data communications. For example, it is probably no surprise that a Bluetooth enabled cell phone is capable of sharing voice communications with a compatible Bluetooth headset, however, the same cell phone may also be capable of establishing a GPRS connection to the Internet. Then, using Bluetooth, the phone can connect to a laptop. The result: The laptop is capable of surfing the web or sending and receiving email.

8. Instant Personal Area Network (PAN)

Up to seven compatible Bluetooth devices can connect to one another within a proximity of up to 30 feet, forming a PAN or piconet. Multiple piconets can be automatically setup for a single room.

9. Upgradeable

The Bluetooth standard is upgradeable. A development group at the Bluetooth Special Interest Group (SIG) has been given the task of working on the new Bluetooth version 2, which offers several new advantages and is backward compatible with the older versions.

10. The Technology is Here to Stay

Bluetooth is a universal, world-wide, wireless standard. Therefore, you can count on it being around for years to come. As more devices begin to use Bluetooth technology, electronics manufacturers will be increasingly eager to make their products compatible, using Bluetooth. A chain reaction is inevitable, in fact, it has already begun.

Learn More About:

[The Different Specification Versions](#)

[Bluetooth Pairing](#)

[Bluetooth Profiles](#)

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