Introduction To Bluetooth

Bluetooth was designed to allow low bandwidth wireless connections to become easy to use so even those who are new to wireless can use them. Version 1.1 of Bluetooth describes a low power, short range wireless networking technology that uses radio waves to send data at rates up to 720 kilobits a second.

The specification for Bluetooth provides for different classes of radio that allow transmission ranges of up to 100 meters by boosting the radio power. The technology of Bluetooth isn't limited to line of sight transmission since it uses directional waves that are capable of transmitting through many obstructions.

Bluetooth is an industry standard communication of wireless, meaning that it enables the connection of other devices as well, such as cell phones, computers, digital cameras, and other types of electronic devices. The specification of Bluetooth defines a radio system and a "stack" of protocol layers and profiles. The highest layer is the application layer, while the lowest layer is the radio.

The wireless technology of Bluetooth is positioned to revolutionize the personal connectivity market by providing freedom from inconvenient fixed type lines.

The specification for Bluetooth eliminates the need for cables by providing a small form factor, low cost wireless solution that will link computers, cell phones, and other electronics. Bluetooth also allows users to connect many ranges of devices quickly and easily and expands communications capabilities as well.

The size of the Bluetooth radio is amazing, as a Bluetooth radio can be built into one or two very small microchips then integrated into any electronic

device where wireless operations would be an advantage.

Bluetooth also offers a robust link, which ensures that normal operating circumstances are not interrupted by interference from other signals that are operating in the same frequency band.

Also known for its worldwide operation, Bluetooth radio operates in the 2.4 GHz frequency band, which is license free and available to any type of radio system in the world. No matter where you are in the world, you count on Bluetooth to work.

Security is also important. Offering advanced security mechanisms, Bluetooth ensures a high level of security. Therefore, authentification will prevent unauthorized acess to important data and make it very difficult to listen in.

Bluetooth also boasts power optimization. The radio is power friendly and the software for Bluetooth is very configurable, limiting the power consumption of equipment. The radio itself only consumes a small amount of power from a cellular phone.

(word count 408)

PPPPP