

wireless

RF solutions

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features and benefits

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applications

**Zigbee
Bluetooth
Wireless USB
RFID
802.11 A, B, G, N
Asset Tracking**



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Wireless

Wireless Person Access Networks (WPAN)

Bluetooth is a standard designated mostly for low power consumption, with a short range. It is based on low-cost transceiver microchips in each device. Several devices can communicate with each other at once, overcoming past synchronization issues. The items do not have to be in each others line of site since they use a radio broadcast communication system.

Zigbee is a specification for a group of high-level communication protocols using small and low power digital radios. They are based on the IEEE 802.15.4-2003 standard for wireless personal area networks. Examples of Zigbee applications include using headphones to connect to a cell phone via short-range radio. Zigbee is not only less expensive than Bluetooth, but also targeted towards RF applications which require a low data rate, secure network, and longer battery life.

Wireless USB is a short-range and high bandwidth wireless radio communication protocol. It is used in wireless handheld controllers, printers, scanners, keyboards, as well as other computer peripherals.

802.11

IEEE 802.11 is a set of standards carrying out wireless local area network computer communication in the 2.4, 3.6 and 5 GHz frequency bands.

Standard	Release date	Op. Frequency	Throughput (typ.)	Net bit rate (max.)
802.11a	October 1999	5 GHz	27 Mbit/s	54 Mbit/s
802.11b	October 1999	2.4 GHz	~5 Mbit/s	11 Mbit/s
802.11g	June 2003	2.4 GHz	~22 Mbit/s	54 Mbit/s
802.11n	TBD	2.4/5 GHz	~144 Mbit/s	600 Mbit/s

Radio-frequency identification (RFID)

Typically, RFID is the use on an object applied to or built into a product, animal, or person for the use of identification and/or tracking. Radio waves are used to send information to the requestor. Tags can be read in some instances from several yards away and past the line of site.

