

History

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	ZigBee	Wi-Fi	Bluetooth
Application	Monitoring and Control	Email, Web, Video	Cable replacement
Physical/ MAC layers	IEEE 802.15.4	IEEE 802.11	IEEE 802.15.1
Data Rate	250 Kbits/s	11 & 54 Mbits/sec	1 Mbits/s
Range	10-100 meters	50-100 meters	10 meters
Networking Topology	Mesh	Point to hub	Ad-hoc, very small networks
Operating Frequency	2.4 GHz	2.4 and 5 GHz	2.4 GHz
Complexity (Device and application impact)	Low	High	High
Power Consumption	low	High	Medium
Number of devices for Network	64K	32 per access point	7
Network Latency New slave enumeration	30 ms	-	20 sec
Network Latency	Join an existing network in <30ms	Connection 3-5 seconds	Connection up to 10 seconds
Typical Applications	Industrial control and monitoring, sensors	Wireless LAN connectivity	Wireless connectivity between devices