

Comparison of IEEE 802.11/802.11b and Bluetooth Specifications*		
Specification	IEEE 802.11/802.11b Wireless LAN	Bluetooth
Applications/Market	<ul style="list-style-type: none"> - Home - School - Enterprise - Campus-wide voice and data 	<ul style="list-style-type: none"> - Cable replacement - Ad Hoc networking - Personal area voice and LAN access
Technology	<ul style="list-style-type: none"> - 2.4 GHZ ISM - Direct Sequence Spread Spectrum - Frequency Hopping Spread Spectrum 	<ul style="list-style-type: none"> - 2.4 GHZ ISM - Frequency Hopping Spread Spectrum: 1600 hops per second
Data Rate	<ul style="list-style-type: none"> - Direct Sequence: 11 Mbps - Frequency Hopping: 1, 2 Mbps 	- 1 Mbps
Power	20 dBm (typical)	0 dBm, 20 dBm
Range	100 M	1 – 10 M at 0 dBm: 100 m at 20 dBm
Network Topology	Vendor dependant access points with client adaptors; each access point supporting typically 128 devices	8 devices in a Piconet
Separate Voice Channel	Optional	Yes
Security	Optional Wireless Equivalent Protection (WEP)	Encryption, authentication

*Comparison information provided by Symbol.