

## WiFi Training Program 2025

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### Question-6:

**What are the differences between 802.11a and 802.11b**

#### **Differences Between 802.11a and 802.11b**

<b>Feature</b>	<b>802.11a</b>	<b>802.11b</b>
<b>Frequency Band</b>	5 GHz	2.4 GHz
<b>Maximum Speed</b>	54 Mbps	11 Mbps
<b>Range</b>	Shorter (due to higher frequency)	Longer (better penetration through walls)
<b>Interference</b>	Less interference (fewer devices use 5 GHz)	More interference (many devices use 2.4 GHz, e.g., microwaves, Bluetooth)
<b>Cost</b>	More expensive	Cheaper
<b>Adoption</b>	Used in enterprise and high-performance networks	Popular in consumer-grade Wi-Fi at the time
<b>Channels</b>	More non-overlapping channels	Fewer non-overlapping channels (only 3 in 2.4 GHz)
<b>Release Year</b>	1999	1999