



SPORTON NEWS

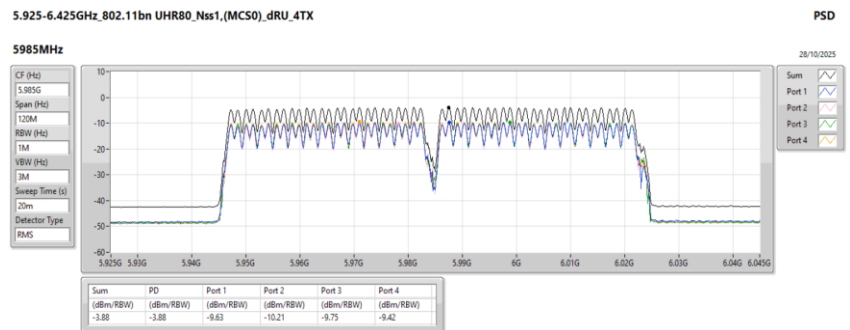
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Sporton Achieves the World's First Wi-Fi 8 Certification

Each new Wi-Fi generation has brought significant advancements to wireless technology. Wi-Fi 6 enhanced multi-user efficiency, while Wi-Fi 7 elevated speed and reduced latency through wider bandwidth and Multi-Link Operation (MLO). Wi-Fi 8 (IEEE 802.11bn) advances further by prioritizing reliability. It ensures stable, low-latency connections even in dense or high-interference environments, leveraging features such as Multi-AP coordination, Dynamic Subband Operation (DSO), Non-Primary Channel Access (NPCA), Distributed-tone Resource Units (DRU), and Enhanced Long Range to optimize spectrum utilization. Wi-Fi 8 is expected to become a key infrastructure for physical AI, offering industrial-grade stability at lower cost than 5G. Future AI devices will likely use a dual-mode approach—5G outdoors and Wi-Fi 8 indoors—but in most indoor settings like factories, homes, and offices, Wi-Fi 8 will be the main platform for AI.

Comparison of Wi-Fi Technologies

Feature	Wi-Fi 6	Wi-Fi 7	Wi-Fi 8
Maximum Channel Bandwidth (MHz)	160	320	320
Modulation	1024 QAM	4096 QAM	4096 QAM
Target Wait Time	Individual	Restricted	Coordination
OFDMA (#RU per STA)	Yes (Single)	Yes (Multiple)	Yes (Multiple)
Multi-Link Operation	–	Yes	Yes
Multi-AP Coordination/ DSO/NPCA/DRU/ELR	–	–	Yes



RU data tones are distributed over a wider bandwidth, which can increase the maximum transmission power of TB

Sporton successfully achieved the world's first Wi-Fi 8 certification, leveraging MediaTek's Filogic 8000 platform, system design and software development. Combined with Sporton's certification expertise, this enabled the team to include advanced features such as Multi-AP Coordination and low-latency operation.

This achievement is a major milestone, marking Wi-Fi 8 from a concept into reality and ushering in a new era of reliable, high-performance wireless connectivity. For further details, please contact Vice President Leo Huang.

e-mail: Leohuang@sporton.com.tw