

Golden Award IC & Components

Single chip MLO, high integration Wi-Fi 8 tri-band connectivity chip



MEDIATEK

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Winning Reason

MediaTek's Filogic 8800 is a highly integrated single-chip Wi-Fi 8 tri-band solution that incorporates Multi-Link Operation (MLO) onto a single silicon die, significantly enhancing data throughput and connection stability. By integrating proprietary Filogic AI technology, the chip achieves superior interference and noise mitigation through intelligent dynamic spectrum management. This results in optimized performance across transmission rates, reliability, and power efficiency. Furthermore, with MediaTek DSO+ technology, the platform delivers up to a 100% transmission efficiency in common scenarios, while maintaining backward compatibility to enhance the performance of existing Wi-Fi 5, 6, and 7 devices.

Product Feature

Building on full support for Wi-Fi 7 features, the solution further introduces and enhances key Wi-Fi 8 technologies, including DSO, NPCA, ELR, and Multi AP Coordination, to significantly improve system performance in high density and high interference environments. It is fully compatible with Wi-Fi 8 / 7 / 6 / 5 devices, ensuring seamless cross-generation interoperability across mixed deployments. Support for 5 GHz 320 MHz ultra-wide bandwidth and ZW-DFS further enhances spectrum utilization and throughput while maintaining backward compatibility. In addition, transmission rates and latency are dynamically adjusted based on environmental conditions using AI-based optimization, with full Filogic AI functionality enabled through integration with the MediaTek NPU.