## Category Award Networking & Communication

# High-Efficiency AI-Driven Wi-Fi 8 Tri-Band Flagship Router

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## Winning Reason

MediaTek’ s Wi-Fi 8 tri-band flagship platform successfully elevates wireless networking from simple high-speed connectivity to a highly reliable, low-latency, and collaborative intelligent connectivity architecture. Serving as a critical infrastructure for AI applications, smart homes, and industrial scenarios, it holds the potential to define the next generation of wireless standards. Wi-Fi 8 is not merely about incremental speed; it is about establishing the reliability benchmark for the AI era.

## Product Feature

This solution leverages a full Wi-Fi 7 feature set while aggressively adopting key Wi-Fi 8 technologies, such as DSO, NPCA, ELR, and Multi-AP Coordination, to deliver superior performance in high-density and noisy environments. Designed for seamless interoperability, the platform supports Wi-Fi 8/7/6/5 devices, ensuring smooth cross-generation compatibility. It also features 5 GHz 320 MHz ultra-wide bandwidth and ZW-DFS, optimizing spectrum efficiency without compromising legacy support. Driven by an advanced AI Computing Engine, this solution features AI Dynamic Power Saving and AI Optimized Roaming, going beyond mere spectrum management. By intelligently adapting power usage and predictions to implement seamless handovers, it ensures uninterrupted connectivity and superior coverage.