

# AsiaRF Unveils Full Wi-Fi 7 Ecosystem: High-Speed Modules, Platforms, and Adapters for AI PC and Server Use

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/EINPresswire.com/ -- AsiaRF is excited to announce the launch of its comprehensive [Wi-Fi 7](#) ecosystem, featuring a cutting-edge suite of wireless modules, advanced development platforms, and innovative [adapter cards](#). This robust ecosystem includes high-performance Wi-Fi 7 wireless router modules such as the

AW7990-NPD, AW7990-AE1, AW7991-AE2, and the flagship AW7995-AE1, equipped with the latest BE series chipset. Additionally, AsiaRF introduces

two multifunctional development platforms, AP7988-002 and AP7988-003, designed to support seamless integration for AI PCs and server applications.

High-Speed Modules Tailored for Diverse Applications

In a world increasingly reliant on high-speed and reliable wireless connectivity, the AW7990-NPD and AW7990-AE1 modules are optimized to support maximum speeds of up to 3,600 Mbps, catering perfectly to smart homes and small office setups where stable connections are essential. Meanwhile, the AW7991-AE2 module offers an impressive transmission speed of up to 5,000 Mbps, specifically tailored for medium-sized enterprises and high-density applications. For enterprise-level networks, automation lines, AR/VR experiences, and 8K streaming, the AW7995-AE1 module stands out with its remarkable capability of delivering speeds up to 14,000 Mbps.

Advanced Tri-Band Technology and Enhanced Security

The core features of these modules include tri-band operation (2.4GHz / 5GHz / 6GHz) that supports Multi-Link Operation (MLO) for simultaneous multi-band data transmission. This advancement is complemented by third-generation OFDMA and MU-MIMO technology, ensuring ultra-low latency and stable connections across multiple devices. Enhanced security is provided through WPA3 encryption and secure boot mechanisms, while energy-efficient design supports smart power management.



AsiaRF Wi-Fi 7 Module The Next Leap in Ultra-Fast Wireless Connectivity

## Powerful Development Platforms for AI and Edge Computing

AsiaRF's AP7988 series development platforms are purposefully engineered for high performance and fortified security. The AP7988-002 platform enables Wi-Fi 7 transmission speeds of up to 19,000 Mbps, powered by a quad-core ARM Cortex-A73 MediaTek MT7988A processor, making it ideal for edge computing and AI applications. This platform also features support for LTE/5G connectivity, an M.2 B Key slot for SSD expansion, and built-in GPS modules for precise location tracking. The AP7988-003 platform is designed for portable network video recording (NVR) applications, seamlessly integrating with the AW7995-AE1 module to support comprehensive video streaming and storage capabilities.

## Industrial-Grade Adapter Cards for Seamless Integration

To meet the rigorous demands of high-performance Wi-Fi 7 applications, AsiaRF has also introduced two industrial-grade adapter cards, designed for seamless integration with AI PCs, servers, and embedded platforms. The M.2 A+E Key Wi-Fi module to PCIe adapter card (ACPX1-201) ensures stable high-current output, while the Mini PCIe Wi-Fi module to PCIe adapter card (PCENGFF-NA1) provides a plug-and-play feature, making it easy for existing platforms to upgrade to Wi-Fi 7 capabilities.

## Commitment to Innovation and Next-Generation Connectivity

This latest offering from AsiaRF not only addresses the pressing needs for high-speed and secure wireless connections but also showcases the company's commitment to innovation and quality, enabling OEMs, system integrators, and enterprises to deploy next-generation wireless networks and smart edge devices.

## Versatile Solutions for Smart Homes to Enterprise Networks

In summary, AsiaRF's comprehensive Wi-Fi 7 ecosystem provides a versatile and high-performance solution for various applications, ranging from smart homes to enterprise-level networks. Readers interested in learning more about these exciting new products can find additional information on AsiaRF's [website](#).

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