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Enhance Wi-Fi® 7 Range, Speed, and Coverage with Skyworks® ICE™ Front-End Modules

Wi-Fi® 7 is the next generation of wireless technology that is transforming the online experience. With Wi-Fi 7, users attain blazing-fast speeds, ultra-low latency, and seamless connectivity in any environment. Whether streaming, gaming, video conferencing, or using AR/VR, Wi-Fi 7 delivers unparalleled performance and reliability.

New front-end modules (FEMs) from Skyworks are designed for the 2.4 GHz, 5 GHz, and 6 GHz bands and offer high power, high efficiency, and high linearity, essential for Wi-Fi 7 applications. Our second-generation Performance and Value tiers deliver the same experience as the original modules—now including both high output power and essential efficiency, giving you flexibility for your investment.

Featured Products

Skyworks® ICE™ Performance Front-End Modules for Wi-Fi 7 Applications

These modules are ideal for applications demanding linearity at higher output levels. They are suitable for complex, high-performance systems where full functionality is key:

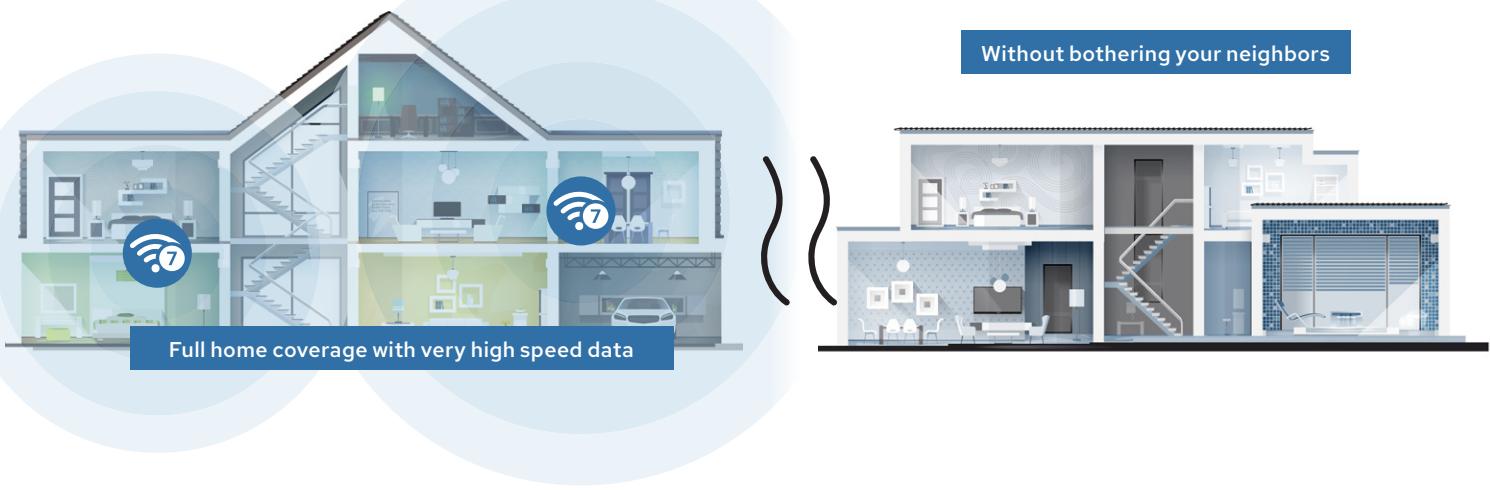
- Extended range at high throughput
- Higher power, improved efficiency, low EVM floor/better throughput
- Complete tri-band solutions when combined with Skyworks BAW filters
- Low latency provides best-in-class gaming and AI experiences

Suitable for:

- Access points
- Home gateways
- Customer premise equipment (CPE)

When every bit of speed matters, you need consistent power where it counts. Unlike solutions that only tout peak numbers, Skyworks Performance FEMs are engineered to maximize output power at the highest data rates (MCS 9 and above):

- Target the highest throughput over the longest range
- Great for wireless backhaul in mesh or gaming applications
- Maximize high throughput power coverage while reducing out-of-channel interference



Part Number	Frequency	Configuration	QAM	Output Power	Bandwidth	Supply Voltage	
SKY85365-11	2.4 GHz	24-pin, 3 x 5 MCM package	4096	21.5 dBm	40 MHz	5 V	
SKY85366-11		16-pin, 3 x 3 MCM package					
SKY85507-11	5 GHz	24-pin, 3 x 5 MCM package		21 dBm	160 MHz		
SKY85508-11		16-pin, 3 x 3 MCM package					
SKY85637-11	6 GHz	24-pin, 3 x 5 MCM package		18.5 dBm	320 MHz		
SKY85638-11		16-pin, 3 x 3 MCM package					

Featured Products

Skyworks® ICE™ Efficiency Front-End Modules for Wi-Fi 7 Applications

These modules are appropriate for applications that prioritize essential Wi-Fi 7 features with streamlined integration and design flexibility, delivering reliable connectivity without unnecessary complexity:

- Power efficiency for optimized performance
- Pin-compatible with Performance tier FEMs
- Robust performance for easy system bring-up

Suitable for:

- High-density enterprise applications
- Mesh/whole-home Wi-Fi systems
- Wi-Fi based home entertainment systems

Efficiency FEMs are ideal for high-density deployments and DC-constrained applications:

- Offer high linearity targeting the highest throughput over shorter distances
- Lower DC power consumption for reduced system thermal burden



Part Number	Frequency	Configuration	QAM	Output Power	Bandwidth	Supply Voltage	
SKY85371-11	2.4 GHz	24-pin, 3 x 5 MCM package	4096	21 dBm	40 MHz	4.2 V	
SKY85372-11		16-pin, 3 x 3 MCM package					
SKY85513-11	5 GHz	24-pin, 3 x 5 MCM package		20 dBm	160 MHz		
SKY85514-11		16-pin, 3 x 3 MCM package					
SKY85643-11	6 GHz	24-pin, 3 x 5 MCM package		17.5 dBm	320 MHz		
SKY85644-11		16-pin, 3 x 3 MCM package					



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