



## Synaptics Extends Leadership in High-Performance Wi-Fi 6E and Bluetooth 5.3 IoT Device Connectivity

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**The SYN43711 SoC delivers best-in-class rate-over-range and interoperability in a cost-effective form factor for secure consumer, industrial, and enterprise systems**

SAN JOSE, Calif., Nov. 08, 2023 (GLOBE NEWSWIRE) -- Synaptics® Incorporated (Nasdaq: [SYNA](#)) today announced the expansion of its industry-leading [wireless connectivity](#) family for the Internet of Things (IoT) with the introduction of the [SYN43711](#). This Wi-Fi™ 6E and Bluetooth™ 5.3 combo system on chip (SoC) adds to the portfolio of products tailored for the high-performance segment of the market. The SYN43711 explicitly targets use cases that demand superior Wi-Fi throughput and range with seamless network interoperability. Specific applications include high-end home appliances, surveillance cameras, robots, and other consumer, industrial, and enterprise systems.

"Wireless is integral to Synaptics' comprehensive 'Sense, Process, Connect' strategy and product portfolio for the IoT," said Brandon Bae, Senior Director of Product Marketing at Synaptics. "The SYN43711 is a high-performance Wi-Fi and Bluetooth solution that enables a broader range of network edge applications. These include video distribution, where consistently high throughput is required, and [AI-enabled compute](#), where data must be communicated securely and reliably with low latency."

The SYN43711 is a single-stream (1x1, 600 Mbps) device that complements Synaptics' dual-stream (2x2, 1200 Mbps) SYN43756E and award-winning Triple Combo™ (SYN438x series). The SYN43711 gives customers a more cost-effective, small-form-factor option.

Innovations include support for Wi-Fi Sensing, using a proprietary algorithm to analyze Channel State Information (CSI). The algorithm allows any Wi-Fi-connected embedded device to detect the presence of humans, estimate their motion, approximate their location, and sense subtle gestures and movements, like breathing.

### Tri-band combo supports the latest requirements

The SYN43711 operates in the 2.4, 5, and 6 GHz bands and features Synaptics' Smart Co-Ex™ technology for unmatched Wi-Fi/Bluetooth coexistence. It is IEEE 802.11ax compliant and supports Bluetooth 5.3 with LE Audio for multiple concurrent Bluetooth connections and audio streams, including Auracast™. A shared Wi-Fi and Bluetooth receive signal path eliminates the need for an external RF switch while maintaining high sensitivity.

The SYN43711 is available in the two most widely used WLPGA packages: standard and plated-through-hole (PTH) compatible. PTH lowers PCB implementation costs.

### Availability

Synaptics' SYN43711 is sampling to key customers now, with production quantities available in Q1, 2024. For more information:

- View the [product brief](#)
- Get [image\(s\)](#)
- Contact your [local sales representative](#)

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### About Synaptics Incorporated

Synaptics (Nasdaq: [SYNA](#)) is changing how we engage with connected devices and data by engineering exceptional experiences throughout the home, at work, in the car, and on the go. Synaptics is the partner of choice for the world's most innovative intelligent system providers, integrating multiple experiential technologies into platforms that make our digital lives more productive, insightful, secure, and enjoyable. These customers combine Synaptics' differentiated technologies in touch, display, and biometrics with a new generation of advanced connectivity and AI-enhanced video, vision, audio, speech, and security processing. Follow Synaptics on [LinkedIn](#), [X](#), and [Facebook](#), or visit [www.synaptics.com](#).

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