

T2M Semi Announces Wi-Fi + Bluetooth Low Energy Combo IP Cores for Next-Generation Connected Devices

New dual-protocol wireless IP solutions deliver high performance, low power consumption, and scalable integration for IoT, wearables, and smart home SoCs.



Noida, Uttar Pradesh Feb 12, 2026 (Issuewire.com) - T2M Semi, a global independent semiconductor IP and technology solutions provider, today announced the availability of its advanced [Wi-Fi + Bluetooth Low Energy \(BLE\) Combo IP Cores](#) engineered to deliver reliable, high-speed wireless connectivity for next-generation connected devices and system-on-chip (SoC) platforms.

The integrated combo IP solution combines high-throughput Wi-Fi communication with ultra-low-power Bluetooth Low Energy capabilities into a unified architecture optimized for compact silicon area and production-ready deployment across multiple process nodes. This dual-protocol design enables manufacturers to support seamless data transfer, secure pairing, mesh networking, and always-on connectivity within a single wireless subsystem.

The Wi-Fi engine supports modern wireless standards with optimized throughput, reduced latency, and intelligent interference management, making it suitable for multimedia streaming, cloud synchronization, over-the-air firmware updates, and real-time data exchange. Advanced power-saving mechanisms such as dynamic sleep modes and adaptive transmit control help extend battery life in portable and wearable electronics.

Complementing the Wi-Fi subsystem, the BLE controller and protocol stack is designed for efficient short-range communication with minimal memory footprint and low CPU utilization. It supports multi-role operation, secure pairing, mesh networking, and wide profile compatibility, enabling smooth interaction with smartphones, sensors, smart home hubs, and industrial gateways.

T2M Semi's Wi-Fi + BLE Combo IP Cores are suitable for a broad range of applications including smart home devices, wearables, IoT sensors, smart lighting systems, healthcare monitoring equipment, consumer electronics, retail ESL systems, remote controls, and connected appliances. The integrated architecture reduces BOM cost, simplifies PCB design, and minimizes RF coexistence challenges.

Availability:

The Wi-Fi + BLE Combo IP Cores are available for immediate licensing with flexible integration options including controller, RF, protocol stack, and pre-verified subsystem packages. Customization and porting services are also available to meet specific product requirements.

About T2M Semi:

T2M Semi is a global independent [semiconductor technology](#) company delivering complex IP cores, embedded software platforms, and disruptive silicon innovations that accelerate the development of IoT devices, wearables, smart home systems, industrial electronics, consumer products, automotive electronics, and edge-connected SoCs. The company focuses on high-performance, low-power, and scalable semiconductor technologies that empower modern connected ecosystems.

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Source : T2M Technology India Private Limited

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