Meshmerize and 8devices Launch RoboNode-M: Compact Dual-Wi-Fi 6 Mesh Module for Robotics and Drone Swarms

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A Breakthrough in Intelligent Wireless Mesh Connectivity for Mobile and Autonomous Systems

Dresden, Germany – June 17, 2025 – Meshmerize, a leader in software-defined wireless mesh networking, and 8devices, a premier EU-based manufacturer of compact Wi-Fi modules and a Qualcomm® Authorized Design Center (ADC), are proud to announce the launch of the **RoboNode-M** — a robust, high-performance wireless module purpose-built for integration into mobile robots, drone swarms, and autonomous systems.

Engineered for the demands of real-world industrial environments, the RoboNode-M features a **lightweight (178g) aluminum housing** with extended temperature support, making it ideal for both indoor and outdoor deployments.

Powered by the **Qualcomm® QCS405 SoC**, the RoboNode-M combines:

- A **long-range 2x4 MU-MIMO radio** and a **1x1 auxiliary radio** for dual-concurrent Wi-Fi 6 (802.11ax) operation
- **Software-selectable 2.4 and 5 GHz bands**, plus extended frequency support across **2.3–3.2 GHz** and **4.1–6.7 GHz**

This exceptional hardware is seamlessly integrated with **Meshmerize's intelligent, field-proven mesh networking software** which is designed specifically for machine to machine (M2M) and machine to infrastructure (M2I) communication. Meshmerize's platform powers fully autonomous "dark" warehouses across six continents with hundreds of interconnected nodes achieving **99.99% reliability**, and has enabled drone swarms of over 50 units operating **kilometers apart**.

"The RoboNode-M is a brilliant example of how Wi-Fi continues to push boundaries in automation and robotics," said **Claus Hetting, CEO & Chairman of Wi-Fi NOW**. "This compact, dual-radio module proves Wi-Fi is not just a consumer technology—it's a high-performance platform for drone swarms, autonomous systems, and industrial innovation. It's truly exciting to see Wi-Fi connectivity enabling new categories of ultra-innovative products."

Key Benefits of RoboNode-M

- **Compact dual-radio Wi-Fi 6** module with extended frequency range
- **High-throughput, low-latency** performance ideal for mobility and autonomy
- **Meshmerize's Hive Network Manager** simplifies large-scale deployment and monitoring

Availability

RoboNode-M is now available for orders.

Learn More

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Wireless Mesh Networking :: Wi-fi6 :: Robotics :: Warehouse Automation :: Drone Swarms :: Autonomous Systems :: Machine To Machine :: m2m ::

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Visit meshmerize.net/supported-devices or 8devices.com/products/robonode to explore RoboNode-M for your robotics, drone, or automation projects.

About Meshmerize

Meshmerize delivers cutting-edge software that transforms advanced wireless hardware into intelligent, resilient, and high-performance mesh networks. Our technology provides mission-critical connectivity for autonomous systems worldwide.

About 8devices

8devices specializes in designing and manufacturing high-performance Wi-Fi hardware modules. They are known for their robust, reliable, and compact solutions tailored for demanding wireless applications, including IoT, robotics, and telecommunications.

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