#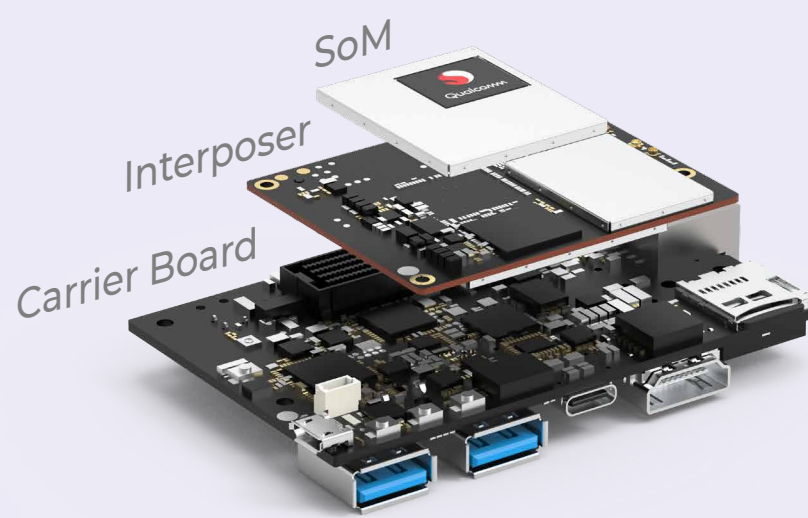 SYSGRATION'S EDGE COMPUTING BUSINESS: UTILIZING SYSTEM ON MODULE (SOM) TECHNOLOGY WITH QUALCOMM PROCESSORS, INTERPOSERS, AND CARRIER BOARDS

A significant development in the field of System on Module (SoM) technology comes from Sysgration, which has partnered with Qualcomm to enhance its AI solutions through advanced SoM architectures. By leveraging Qualcomm's latest processors, Sysgration aims to deliver powerful computing capabilities tailored to applications such as Autonomous Mobile Robots (AMRs), drones, and other AI-driven solutions.

This partnership combines Sysgration's expertise in embedded systems with Qualcomm's cutting-edge processing technology, enabling the development of intelligent, efficient, and versatile solutions that operate effectively in diverse environments. Integrating AI at the edge empowers devices to process data in real time, enhancing decision-making and overall performance.

The combination of SoMs, interposers, carrier boards, and innovative collaborations like that of Sysgration and Qualcomm creates a robust embedded system architecture with several key advantages:

01 **Modularity:** This approach encourages modular design, allowing developers to upgrade components without redesigning the entire system.

02 **Rapid Prototyping:** Standardized connections and ready-to-use modules enable quick testing and iteration, accelerating development.

03 **Cost Efficiency:** Integrating multiple functionalities into compact modules significantly reduces overall system costs.

04 **Enhanced Performance:** Optimized designs lead to faster processing speeds and improved power efficiency, crucial for many embedded applications.

AMR

Drone

Quadruped Robot

In summary, Sysgration's edge computing solutions with Qualcomm processors provide a flexible and powerful foundation for AI applications like robots and drones. By using System on Module (SoM) technology, Sysgration enables faster development, lower costs, and better performance.

This modular setup makes it easy to upgrade and customize systems, while also improving efficiency. With real-time data processing, Sysgration's solutions help clients create smarter, more responsive devices that work effectively across various environments.