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INNOVATOR IN ELECTRONICS

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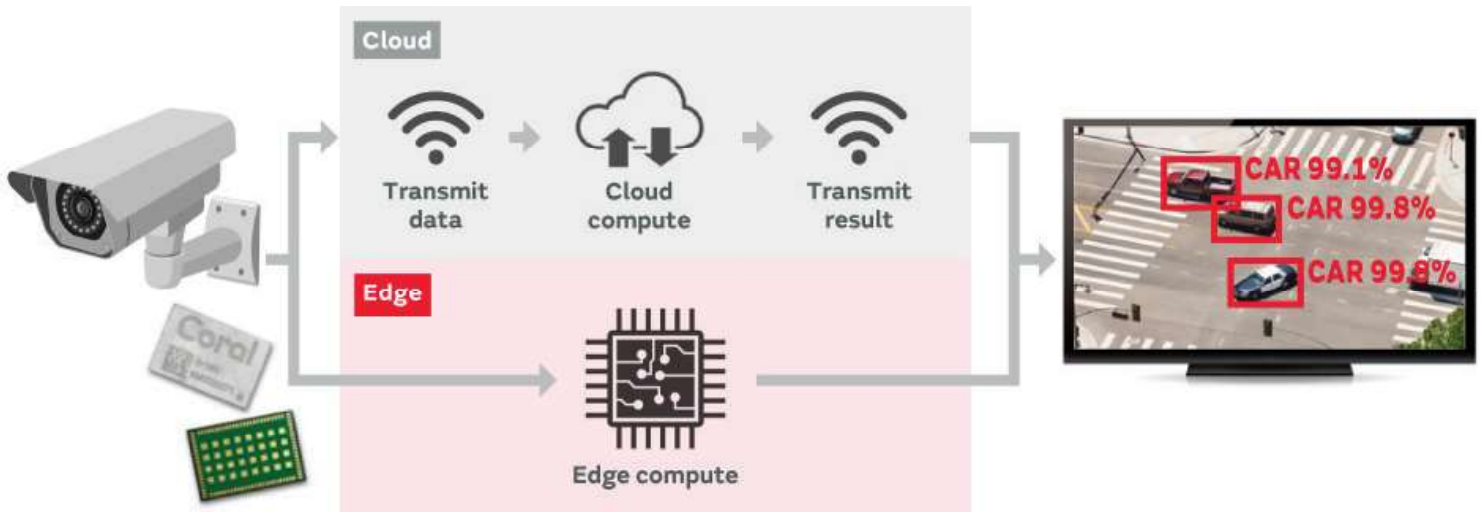
Coral
SYNTIANT

AI at Edge

Edge AI is a combination of edge computing and artificial intelligence. Recent advances in AI machine learning technology are enabling new capabilities that were previously impossible for conventional MCU systems. Building on the benefits of Edge Computing to process data locally on-device, ML processing reduces latency, increases data privacy and security, and removes the need for a constant internet connection.



- Leading the next wave in edge computing, Murata is leveraging its advanced packaging technology to pack powerful AI computing into tiny packages.

Solution Design

Murata offers products to meet the needs of both high performance and low power applications. The high-performance Type 1WV is based on Google's Coral Edge TPU™ Accelerator and is capable of real-time image recognition. The ultra-low-power Type 2DA is based on Syntiant's award-winning always-on neural processing architecture and is ideal for keyword detection and other audio and sensor applications.

Solution Objectives

1. Low latency
2. Increased data security and privacy
3. Low power consumption
4. Reduced bandwidth requirement

Possible Applications/Use Cases

- Voice Assistants and Smart Applicances
- Biometric based Security/ Privacy Protection
- Diagnostic and Health Tracking
- Industrial Automation and Predictive Maintenance

Contact Information:

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