

ACL Digital

A leader in system and digital engineering led transformation

ACL Digital is a part of the ALTEN Group. At ACL Digital, we empower organizations to thrive in an AI-first world. Our expertise spans the entire technology stack, seamlessly integrating AI and data-driven solutions from silicon to cloud. With proven experience across cloud platforms, DevOps, AI/ML, mobile applications, cybersecurity, and connectivity, we help enterprises accelerate innovation and deliver scalable, intelligent, and secure solutions. By choosing ACL Digital, you gain a strategic advantage in navigating the complexities of engineering transformation.

We are your trusted technology partner in shaping the future.



Partnership with Synaptics

As a strategic partner, ACL Digital delivers end-to-end system design and development services, including Edge ML and AI/ML model creation, training, and porting on edge platforms, embedded hardware and software development, wireless and cloud connectivity integration, and complete system verification and validation. Leveraging our experience with Synaptics platforms including Edge AI SoCs from the SL and SR series, advanced audio codecs, and connectivity solutions, we help customers accelerate innovation and build AI-enabled systems tailored to their specific use cases.



Together with Synaptics, we transform these capabilities into real-world applications such as smart assistant at edge, gesture recognition, and Matter-connected solutions. Our joint efforts enable customers to select the right Synaptics platforms and services, helping them accelerate development and expedite time-to-market for innovative, AI-enabled use cases across consumer and industrial domains.

Customer Specific Solutions



Case Study 01

Gesture-Powered TV Experience

For a global TV and digital signage manufacturer, ACL Digital collaborated with Synaptics experts to develop a gesture-controlled solution powered by Synaptics AI Camera. The joint team optimized model performance, integrated the right sensors, and achieved highly efficient system performance for seamless, hands-free content control.

- Enables intuitive content navigation from up to 4 meters away.
- Supports recognition of generic hand gestures for seamless user interaction.



Case Study 02

AI-Powered Smart Assistant on Edge

ACL Digital, in collaboration with Synaptics, developed a facial-recognition enabled voice assistant solution designed to ensure secure interactions by working only for authorized users.

- **Innovative Dishwasher Assistant:** Enables users to ask frequently asked questions about dishwasher issues specific to their model and receive instant, pre-programmed answers — e.g., “My dishwasher is leaking” → quick troubleshooting response.
- **Multilingual Washing Machine Assistant:** Integrated multilingual support with the right model and platform configuration to handle washing machine FAQs, ensuring accurate responses for Japanese-language queries.
- **Smart Wash Cycle Selector:** An AI-powered assistant that interprets user voice prompts about fabric load and recommends or configures the best wash cycle automatically.
- **Secure & Self-Improving Access:** All assistants are enhanced with Face-ID authentication to ensure only authorized users get a personalized experience. In addition, the agent can self-improve by fetching answers to unknown questions from a cloud AI platform and storing them locally, enabling smarter responses at the edge in future interactions.



Case Study 03

Matter-Enabled Home Assistant

We developed a voice-activated home assistant integrated with Matter protocol for smart home ecosystems.

- Controls smart plugs, bulbs, locks, and thermostats via voice commands.
- Extends beyond Q&A to execute real-time I/O operations based on recognized voice commands.
- Includes Face-ID based registration and enrollment via voice commands with administrator validation for secure access. It also supports inter-device connectivity and home assistant integration over the Matter protocol, enabling users to control devices through voice commands as well as trigger rule-based actions across other connected devices.

ACL Digital is a design-led Digital Experience, Product Innovation, Engineering and Enterprise IT offerings leader. From strategy, to design, implementation and management we help accelerate innovation and transform businesses. ACL Digital is a part of ALTEN group, a leader in technology consulting and engineering services.

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