

INTEGRATED SECURITY SYSTEM DEVELOPMENT

BUSINESS NEED

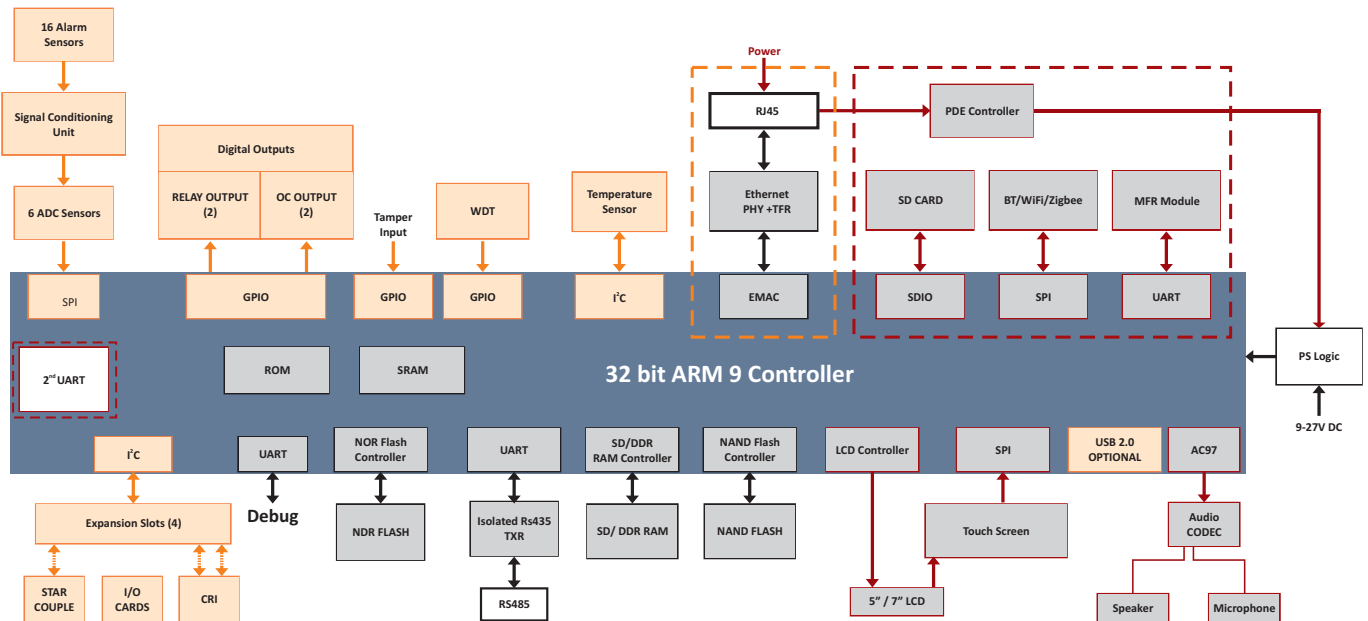
The client envisaged to develop an integrated security system, enabling the former to manage access control and alarm on one unified platform based on Atmel's ARM 9 micro processor AT91SAM9G45. The primary challenge faced in the development process is:

- To design and estimate the product cost on a common hardware platform which could be configured as LCD/ Keypad panel, Analog & Digital Input Output Panel and Low cost Alarm panel

SOLUTION DELIVERED

The main highlights of the solution are:

- It is designed around ARM 9 processor from Atmel/TI
- ROHO compliant design



Legend

Keypad - LCD Controller Interfaces	Analog & Digital Input Output Panel and Low cost panel interfaces	Optional interfaces for LCD and Keypad
Optional items in Analog & Digital Input Output Panel and Low cost panel only	Optional for KP/LCD. Analog & Digital Input Output/ Low cost panel	Interfaces common to KP/LCD. Analog & Digital Input Output panel and Low cost panel

Block Diagram for Analog & Digital I/O Panel and LCD/Keypad panel Low

- ⦿ Low power design
- ⦿ Industrial grade design operating in the range -40°C to +85°C
- ⦿ Fan less operation

The team from ALTEN Calsoft Labs was responsible for the following:

- ⦿ Schematics in OrCAD
- ⦿ Manufacturing Bill Of Material



TECHNOLOGY USED

- ⦿ Atmel's ARM 9 micro processor AT91SAM9G45
- ⦿ Ethernet, SPI, LCD
- ⦿ Voice over Ethernet
- ⦿ Audio codec
- ⦿ Linux and C
- ⦿ PADS and Orcad



BUSINESS BENEFITS

- ⦿ Stringent security
- ⦿ Sensitive intrusion detection
- ⦿ Anomaly detection

ABOUT ALTEN CALSOFT LABS

ALTEN Calsoft Labs is a next gen digital transformation, enterprise IT and product engineering services provider. The company enables clients innovate, integrate, and transform their business by leveraging disruptive technologies like mobility, big data, analytics, cloud, IoT and software-defined networking (SDN/NFV). ALTEN Calsoft Labs provides concept to market offerings for industry verticals like education, healthcare, networking & telecom, hi- tech, ISV and retail. Headquartered in Bangalore, India, the company has offices in US, Europe and Singapore. ALTEN Calsoft Labs is a part of ALTEN group, a leader in technology consulting and engineering services.

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