



GadgEon

Engineering Smartness



Avalanche Detection Device

Customer needed a ruggedized snow-pack measurement device for use in avalanche detection.

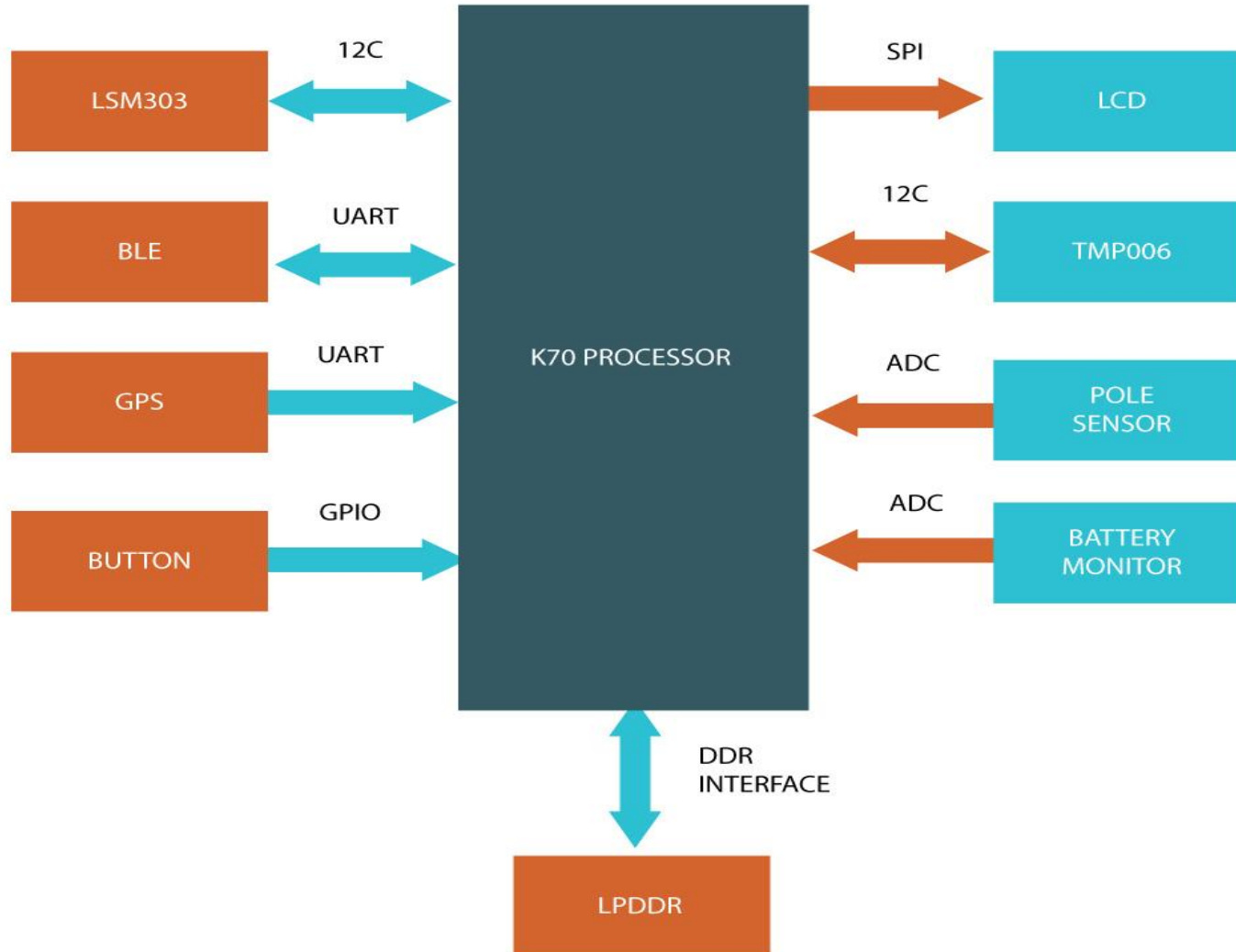
Challenge

- Ultra tight schedule
- Low Power Battery Management for harsh conditions
- Multiple DSP Algorithm implementations

Outcome

- Gadgeon designed full system HW/FW/GUI
- Units being sold today
- Ski Resorts
- Snow Research Community
- Extreme Skiers

System Architecture



WHAT DID GADGEON DO?	PLATFORMS/ TECHNOLOGIES USED
1) Architecture of the device Hardware and firmware	Requirements gathering, Analysis and Architecture
2) Hardware design, prototyping, board-bring up for the Avalanche detection device	Cadence allegro
3) Embedded Firmware	<ul style="list-style-type: none"> • MQX RTOS • SD card via SHDC for high speed data transfer with FAT FS • Display driver and graphics library for menu and graph display • GPS location and graphical icons for lock status • Bluetooth using RB42 for data transfer • Tilt compensated compass • Highspeed ADC acquisition and for pressure , distance, temperature • USB interface for data communication



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