



Connected Car

Customer needed a device with wifi/ble connectivity to monitor and control engine performance.

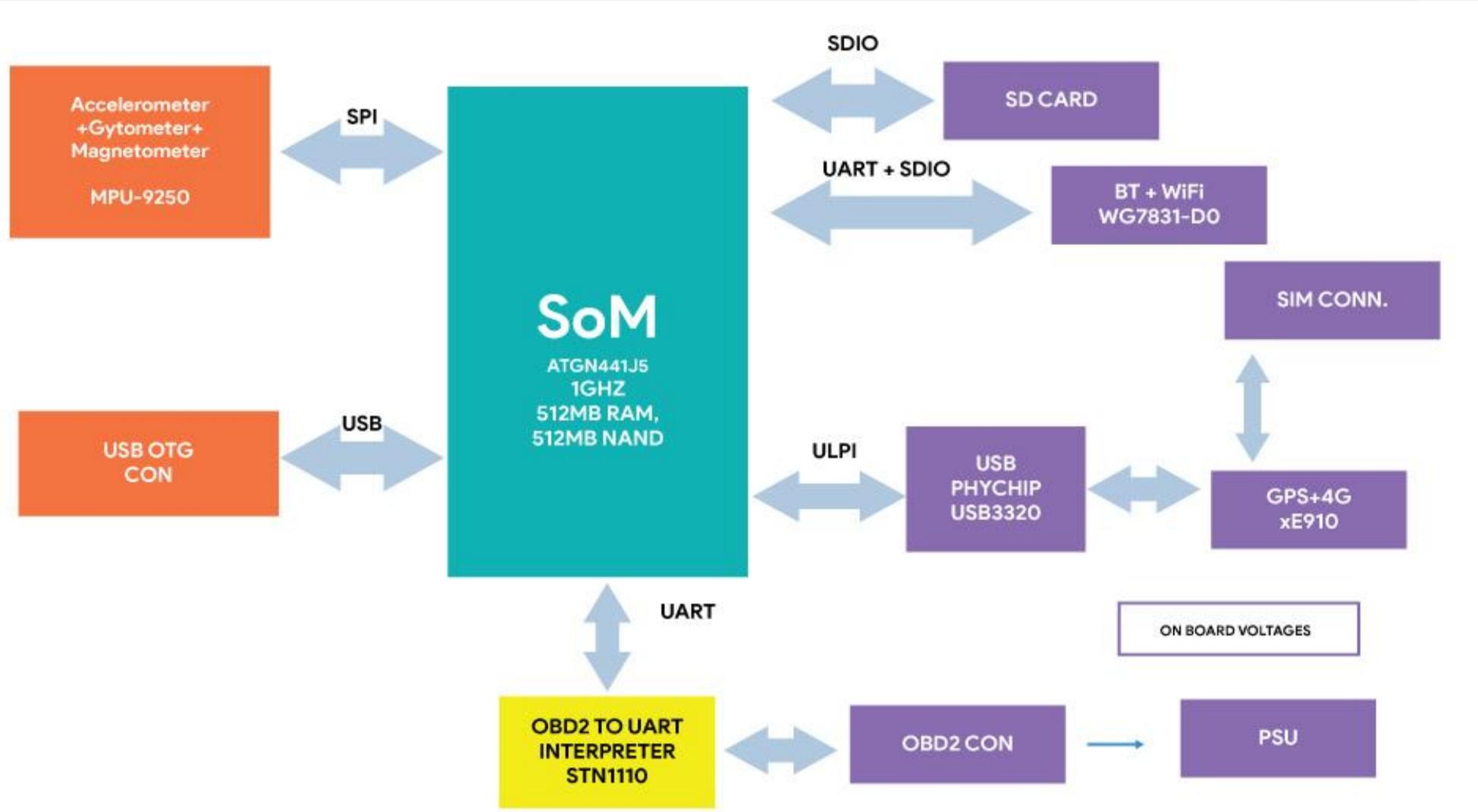
Challenge

- Tight Form Factor
- Heterogenous data formats

Outcome

- Gadgeon designed the entire system (HW/FW/App SW)
- Sensor Integration
 - Gyro/Accelerometer/Magnetometer
 - GPS + 3G/LTE module integration

Clickdrive - Architecture



| WHAT DID GADGEON DO? | PLATFORMS/ TECHNOLOGIES USED |
|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1) Architecture device connected to the OBD2 port including HW and FW | Requirements Gathering & Analysis, Uses cases, Architecture development, identification of functional components. |
| 2) Hardware design, prototyping, boardbring up for HW board based on TI Sitara AM335x | Component Identification, Analysis of SOM options, Design Footprint creations, Layout Component sourcing, cadence allegro |
| 3) Embedded Linux firmware | Interface to OBD using STN1110 Multiprotocol OBD to UART chipset,Integration of kernel drivers for TI Wilink8 module and test the wifi and BT connectivity (for use with mobile apps), Development of driver for MPU9250 9-axis motion sensor for motion tracking, Integration of 3G/LTE using Telit HE910/LE910 for cloud communication |
| 4) Integration of all subsystems with Cloud application developed by 3rd party | |



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