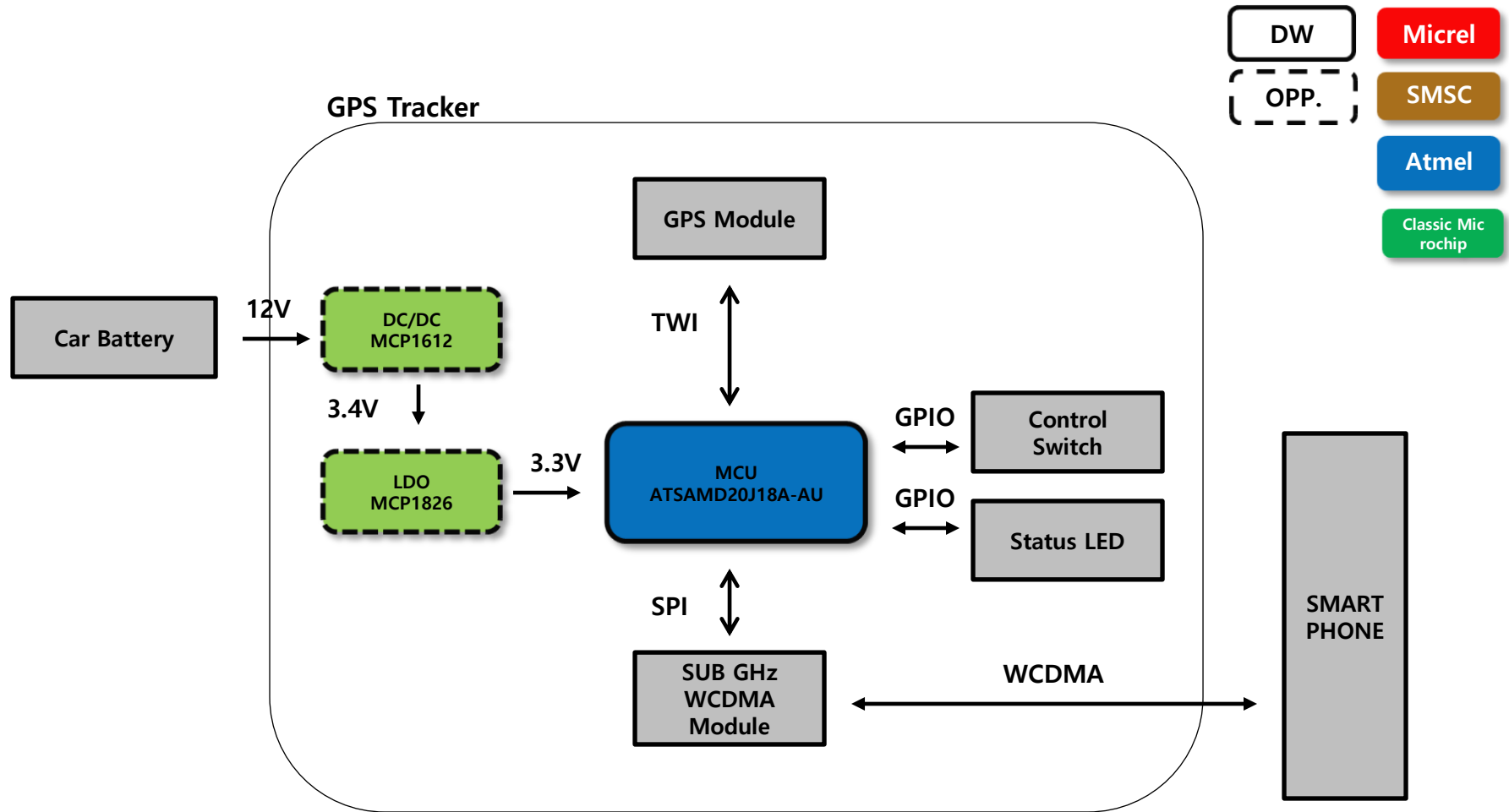
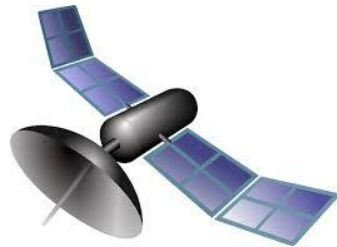


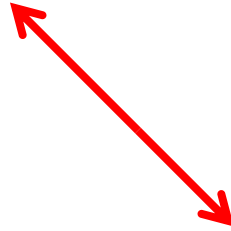
# LCD Billboard- Block Diagram



# LCD Billboard – System



Satellite



GPS Tracker

Smart Phone



Car



## ❑ Microchip MCU, ATSAM20J18A-AU

- ARM Cortex-M0+ CPU running at up to 48MHz
- Single-cycle hardware multiplier
- 256KB in-system self-programmable Flash
- 32KB SRAM memory
- Power-on reset (POR) and brown-out detection (BOD)
- Internal and external clock options with 48MHz digital frequency locked loop (DFLL48M) and 48MHz to 96MHz

## ❑ Microchip Regulator, MCP1612-ADJI/MS

- 1.4MHz 1A Synchronous Buck Regulator
- 1.4MHz fixed switching frequency
- Integrated buck and synchronous switches
- 1 Amp continuous output current capability
- Input voltage range of 2.7V to 5.5V
- Adjustable output voltage range of 0.8V to 5.0V
- Precise reference feedback voltage of +/- 2.5%

## ❑ Microchip LDO, MCP1826

- Up to 1A output load current
  - Low dropout voltage 300 mV (typ)
  - Output voltage from 0.8V to 5.0V, both fixed and adjustable
  - Stable with 1.0  $\mu$ F ceramic output cap
  - Power good output
  - Low supply current 120  $\mu$ A (typ)
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