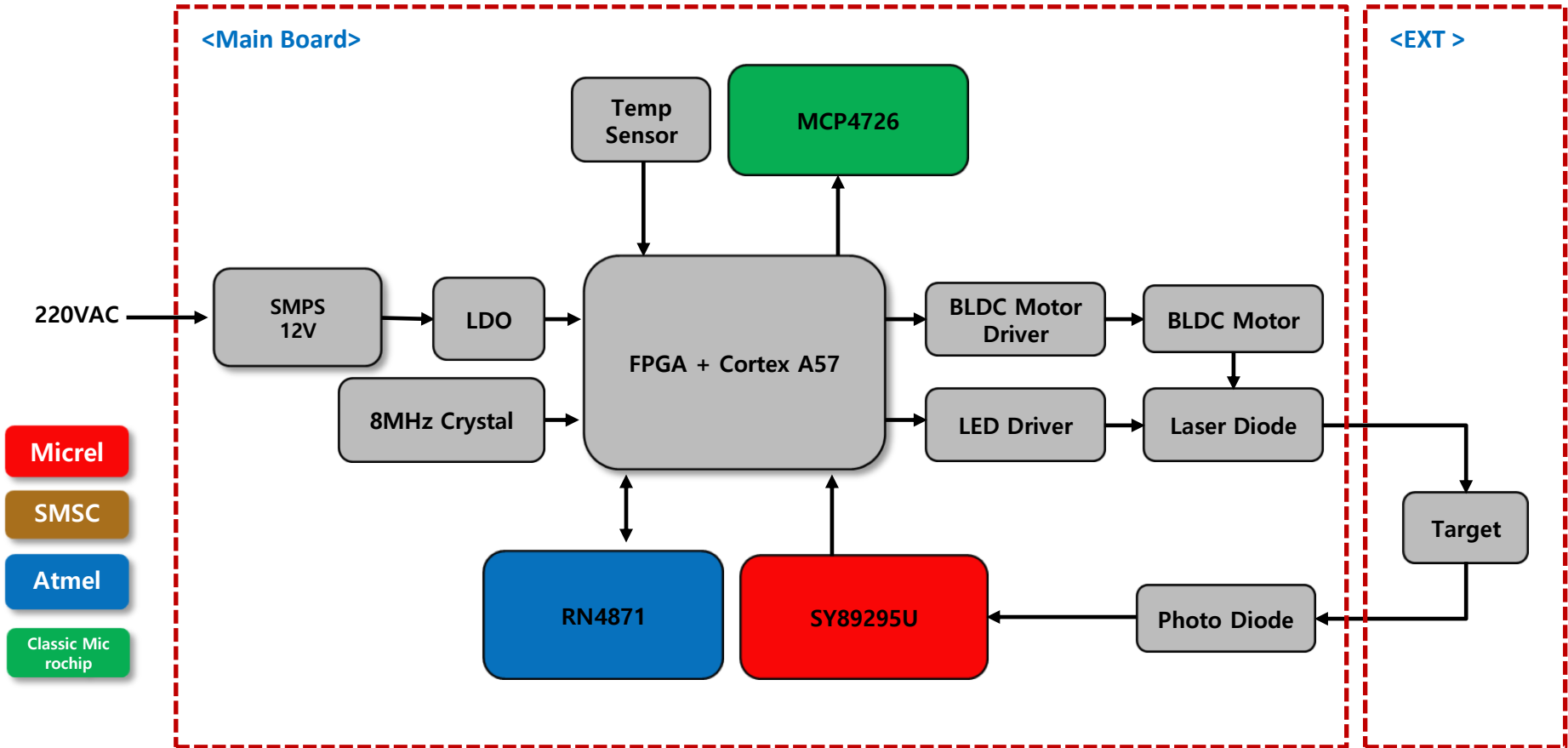
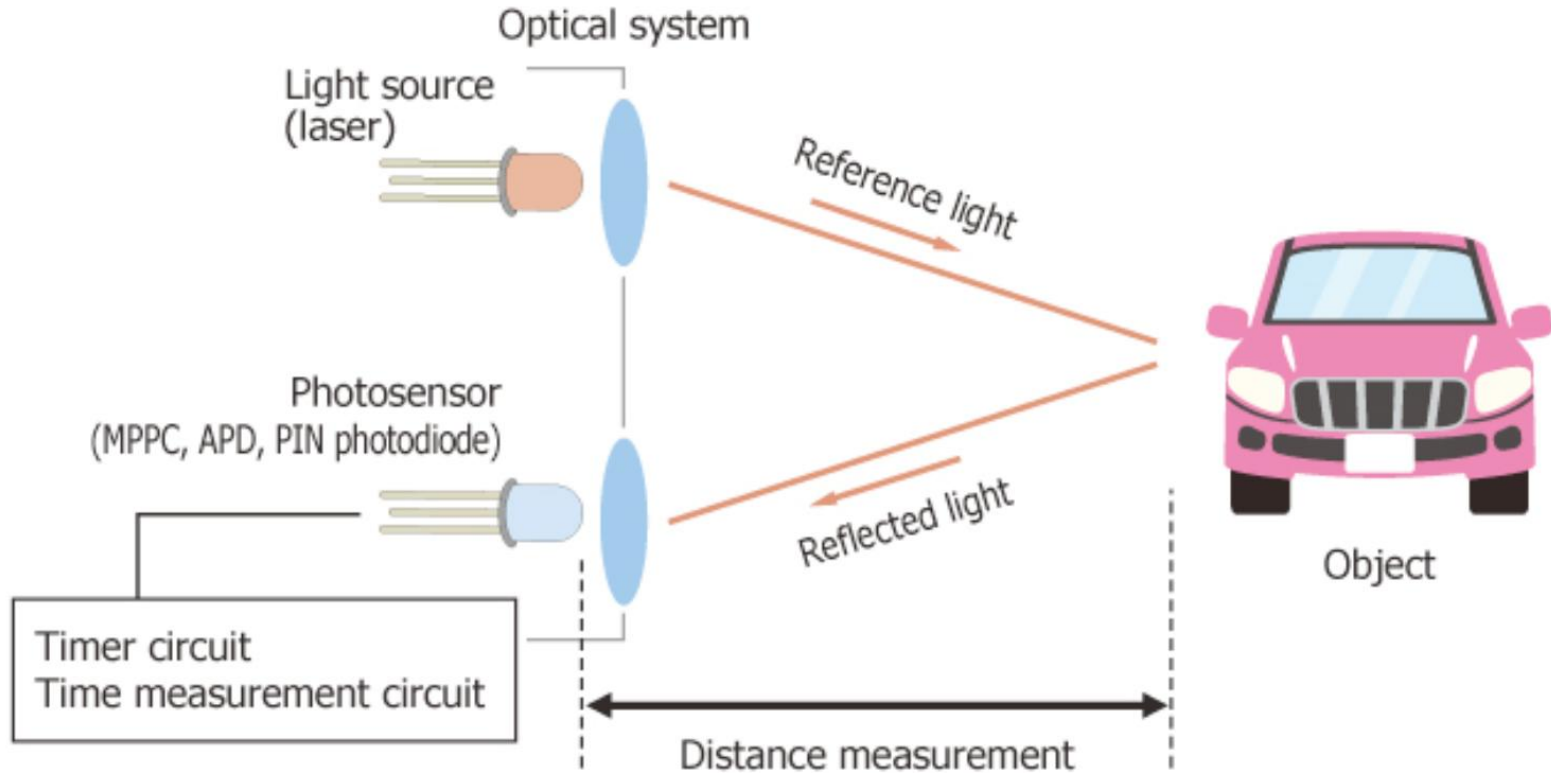


LiDAR – Block Diagram



LiDAR – System



□ Microchip DAC, MCP4726

- 12-bit Resolution
- Rain-to-Rain Output
- Fast Settings Time of 6 μ s
- I2C™ Interface:

□ Microchip BLE Module, RN4871

- Bluetooth 5 Certified
- Easy to use ASCII command interface for communication
- Module certified for use in USA, Canada, Brazil, Europe, Japan, Korea, Taiwan and China
- Mobile Application Supported in Microchip Bluetooth Data (MBD)
- ISM Band 2.402 to 2.480 GHz Operation
- RX Sensitivity : -90 dBm
- TX Power : 0dBm

□ Microchip Programmable delay, SY89295U

- Precision LVPECL programmable delay line
 - >1.5GHz fMAX
 - <160ps rise/fall times
 - < 10psPP total jitter
 - <2psRMS cycles jitter
 - <1psRMS random jitter
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