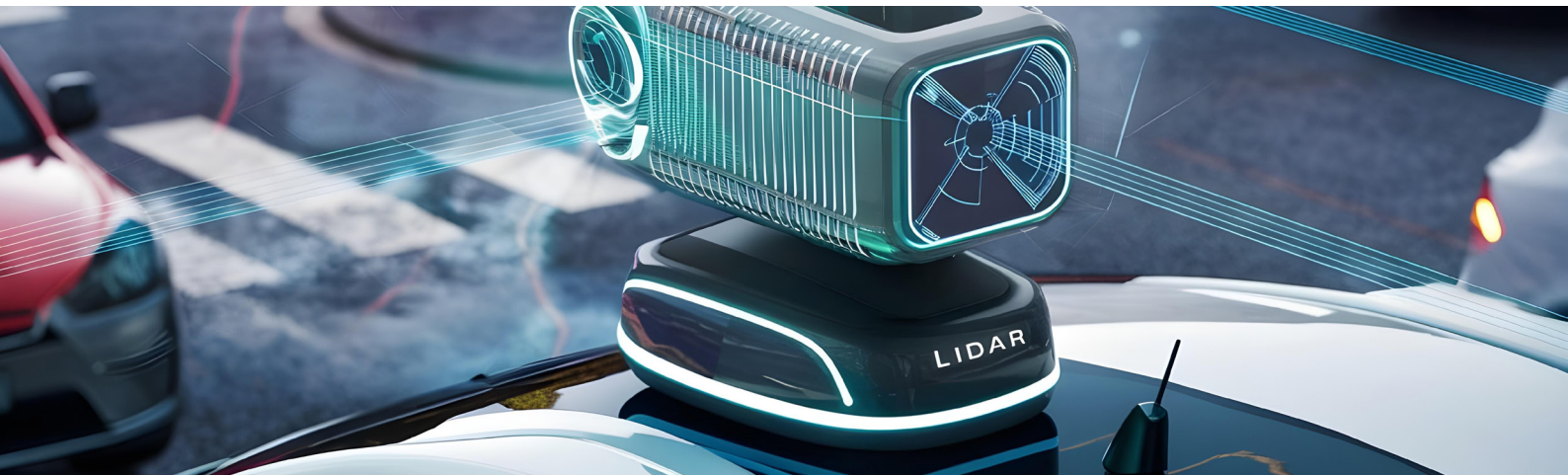
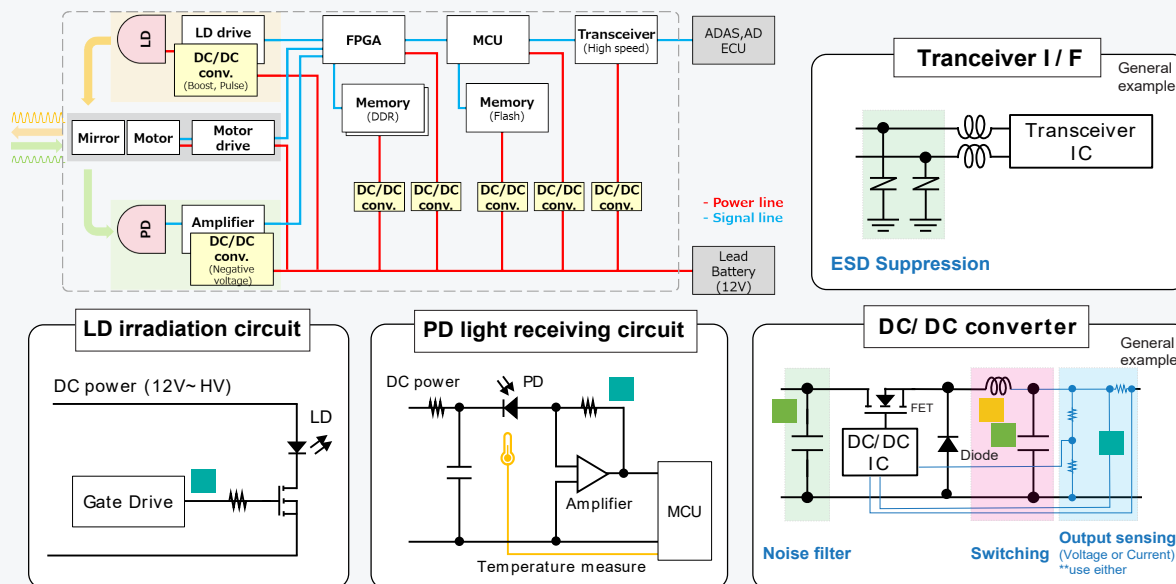




LiDAR (Light Detection And Ranging)

Light Detection and Ranging, or LiDAR, is a technology that creates precise 3D maps of the environment by emitting laser pulses and measuring the time it takes for the light to bounce back after hitting an object. In autonomous vehicles, LiDAR is essential for real-time perception and mapping, continuously scanning to provide accurate data on the position, size, and movement of objects, allowing for safe navigation and informed decision-making.

Block Diagram:



Our devices	
Hybrid capacitor	
Power inductor	
SMD resistor	

Design consideration:

- Large current
- Low loss
- High precision (voltage, temperature)
- High frequency
- Miniaturization

Recommended product:

Capacitor

- Hybrid capacitors ([ZC](#) / [ZKU](#) / [ZV](#) / [ZL](#))

Power inductor

- Low cost / low profile series ([LE](#) / [LP](#))

Resistor

- High precision resistors ([ERA*A](#))
- High power resistors ([ERJB](#) / [ERJP](#))

Contact:

Tel: +49-89-45354-1000

E-mail: info.pieu@eu.panasonic.com

Web: industry.panasonic.eu