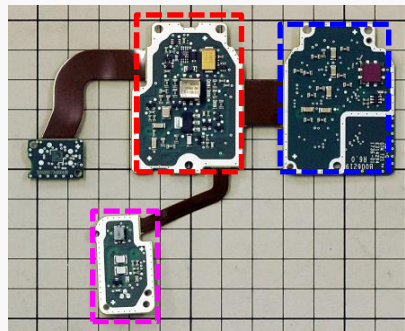


AUDI A8 LiDAR (SCALA) BOARD – DETAILED CIRCUIT ANALYSIS REPORT

July 2018. LTEC Corporation released a detailed analysis report of the Audi A8 LiDAR (SCALA) sensor boards manufactured by Valeo. The Valeo SCALA® scans the area in front of the vehicle and detects vehicles, motorcycles, pedestrians and static obstacles. Using the collected data, the scanner enables creation of a map of the environment to analyze and anticipate events around the vehicle.



LiDAR module



Sensor PCB (Top View)



Basic features

- The light emitter and the and receiver are stationary, and scanning is performed by a movable mirror.
- The control board uses FlexRay communication standard interface.
- Power to the light emitter and receiver boards is provided by a power supply IC manufactured by Linear Technology.
- The light emitter board, controlled by the control board, consists of laser diodes, switch and driver.
- 3-channel photodiode/LNA combination provides input to the control board.

The 50-page report includes details of the PCB layout, BOM, circuit schematic diagram of the light emitter, light receiver, and the Power Supply PCBs.

Note: The report price decreases over time. Contact info@ltecusa.com for current price.

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