

FPD- Link “Repeater”

Automotive Design to Buffer PoC voltage and signal for lengths > 10m

Design Features

- Design that effectively buffers signal/power from ECU to camera module attached to trailers or vehicles where the length of camera module to ECU is greater than 10m
- Design power solution address EMI with spread spectrum power devices:
 - LM63615-Q1 – Wide Vin Buck (3.5 to 36V), Pseudo-random spread spectrum. Junction temperature range -40°C to $+150^{\circ}\text{C}$
 - LM63615-Q1 – Wide Vin Boost/SEPIC(2.9 to 45V), Selectable Dual Random Spread Spectrum. Input Transient Protection up to 50V. Junction temperature range -40°C to $+150^{\circ}\text{C}$
- On board HS Switch provides Diagnostics, Short-to-GND and Overload Protection. Adjustable Current Limit with External Resistor

Tools & Resources

- **Design Files:** Schematics, BOM, Design Files

Design Overview

