

# Automotive Cluster Wide Vin Power Supply Design - TIDA-00275



Available

## Solution Features

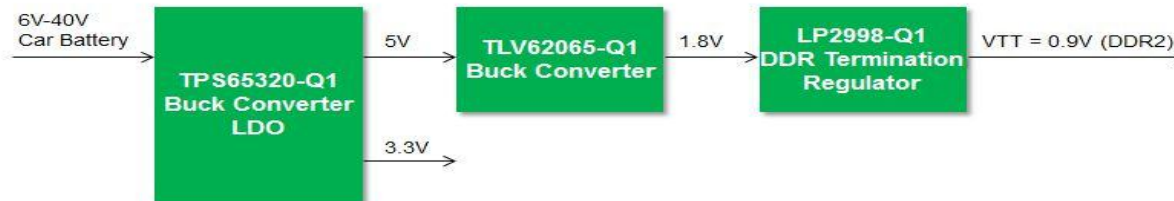
- Wide input voltage range: 6.0V - 40V
- Monolithic high-voltage switching regulator with an integrated switch of 40 V, a power MOSFET, and a low-standby-current LDO
  - Switching frequency programmable 100kHz – 2.5MHz
- 3-MHz 2-A Step-Down Converter in 2-mm x 2-mm SON Package
- DDR Termination Regulator

## Solution Benefits

- Withstanding start/stop, and load dump conditions
- Switching frequency above AM band desired by automotive OEMs
- The small package together and the higher frequency enables the use of small external components and a small total solution size of <47mm<sup>2</sup> (and 1mm maximum height)
- Sink/source voltage regulator that will provide the VTT termination voltage for DDR memory

## Tools & Resources

### TIDA-00275



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