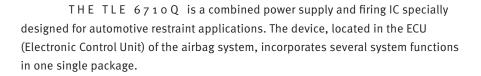
TLE 6710Q

Combined Power Supply and Firing IC



Applications

Automotive Restraint Applications

Features

- Boost Converter up to 30 V
- Buck Converter 5 V
- 4 independent firing loops (1.75 A ... 3 A)
- Extra HW lines (Safety Lines) to enable firing
- High Side and Low Side Switch for each firing circuit
- Digital output for firing current detection
- Watchdog for supervision
- Power on/off reset generator
- Serial interface line driver (ISO 9141 and TTL-Level)
- 4 voltage/current sources for diagnostic purposes
- Diagnostic driver for inductive loads or lamps
- Unidirectional Serial Peripheral Interface (SPI) up to 4 MHz
- Logic and analogue output for direct sensing and diagnostic via μC



Embedded Protection Functions

- Thermal and short circuit protection for each switch
- Current limitation for each firing loop

Embedded Diagnostic Functions

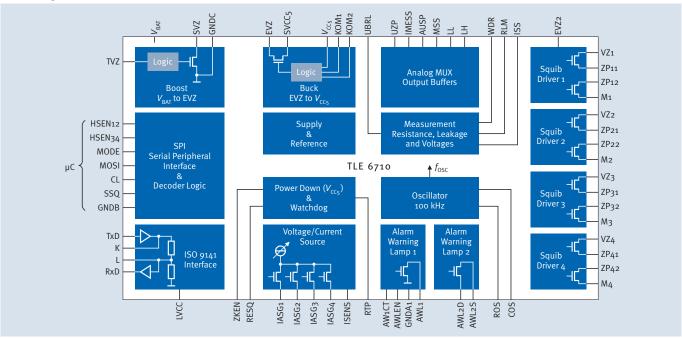
- Squib resistance Measurement with programmable gain
- Programable Squib Leakage
 Measurement to GND or BAT
- Detection of safing sensor closure
- Low battery detection
- Average Chip Temperature Measurement
- Supply voltage measurement on external pins

www.infineon.com/restraint-system-IC

Automotive Power



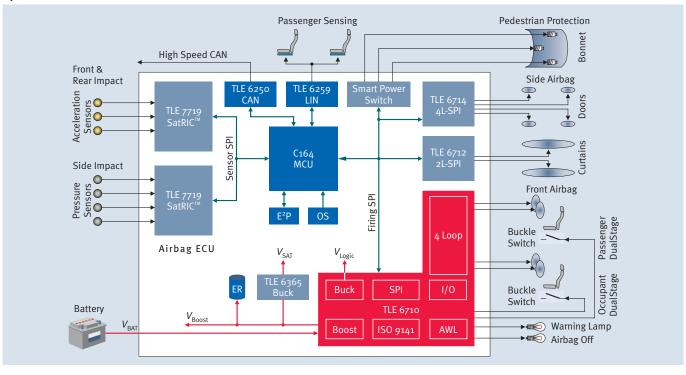
Block Diagram



Product Summary

Туре	Sales Code	Description	Package
TLE 6710Q	available upon request	Airbag System IC	P-MQFP-64-11

System Overview



How to reach us: http://www.infineon.com

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