

Features

- ▶ High efficiency 5V DC/DC buck converter
- ▶ Wakeable HS-CAN transceiver (ISO11898-2 and -5)
- ▶ Up to four LIN transceiver compliant with LIN 2.1, SAE-J2602
- ▶ Operating range 5V up to 40V
- ▶ Typ. 35µA sleep current consumption
- ▶ Typ. 120µA standby current consumption with active DC/DC buck converter
- ▶ Configurable µC watchdog (cycle time and type)
- ▶ BUS pins ESD-protected 8kV according to IEC-61000-4-2
- ▶ Operating temperature range -40°C to +125°C

Applications

- ▶ Body control units, gateways

General Description

The CAN/LIN SBC family with DC/DC voltage regulator provides beside the CAN and LIN transceivers the main µC power supply with a high efficiency DC/DC converter. An additional linear regulator can be used independently as peripheral supply. All supplies are monitored and can signalize a fail event by SPI interface. The main DC/DC supply monitor can generate a µC reset. System failure can activate a fail-safe output signal for limp home support.

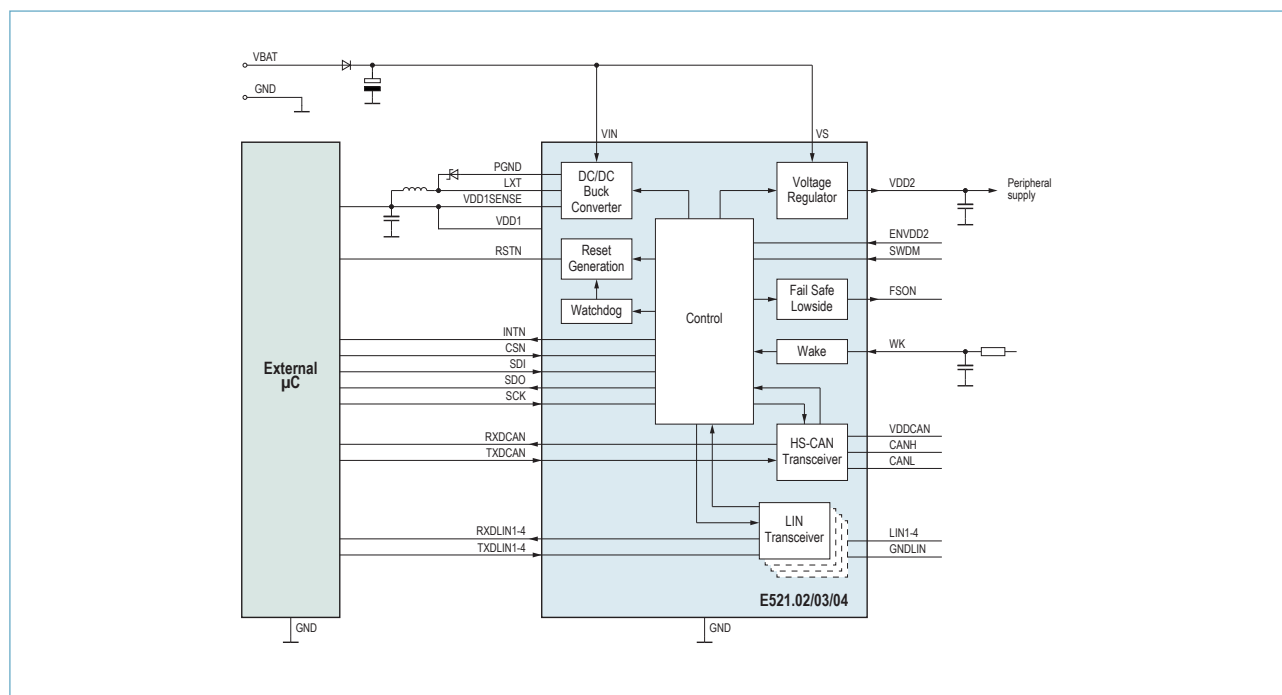
The CAN/LIN SBC family provides SLEEP, STOP, ACTIVE and FAILSAFE modes.

The device is capable of detecting local and remote wake-up events which can be individually enabled via SPI.

Ordering Information

Product ID	LIN Transc.	CAN Transc.	Package
E521.02	2	1	QFN44L7
E521.03	3	1	QFN44L7
E521.04	4	1	QFN44L7

Typical Application Circuit



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