

Features

- ▶ HS-CAN transceiver Compatible to ISO 11898-2, ISO 11898-5 and ISO 11898-6
- ▶ Four wake-up sources
 - Local wake-up
 - Remote wake-up pattern (ISO 11898-5)
 - Remote wake-up frame (ISO 11898-6, selective wake-up function)
 - SPI wake-up
- ▶ Three system states
 - Sleep: I_{VS} typ. 15 μ A
 - Frame detect: I_{VS} typ. 750 μ A
 - Normal: I_{VS} typ. 1 mA
- ▶ Configuration via SPI

Applications

- ▶ CAN based ECUs in partial networks

General Description

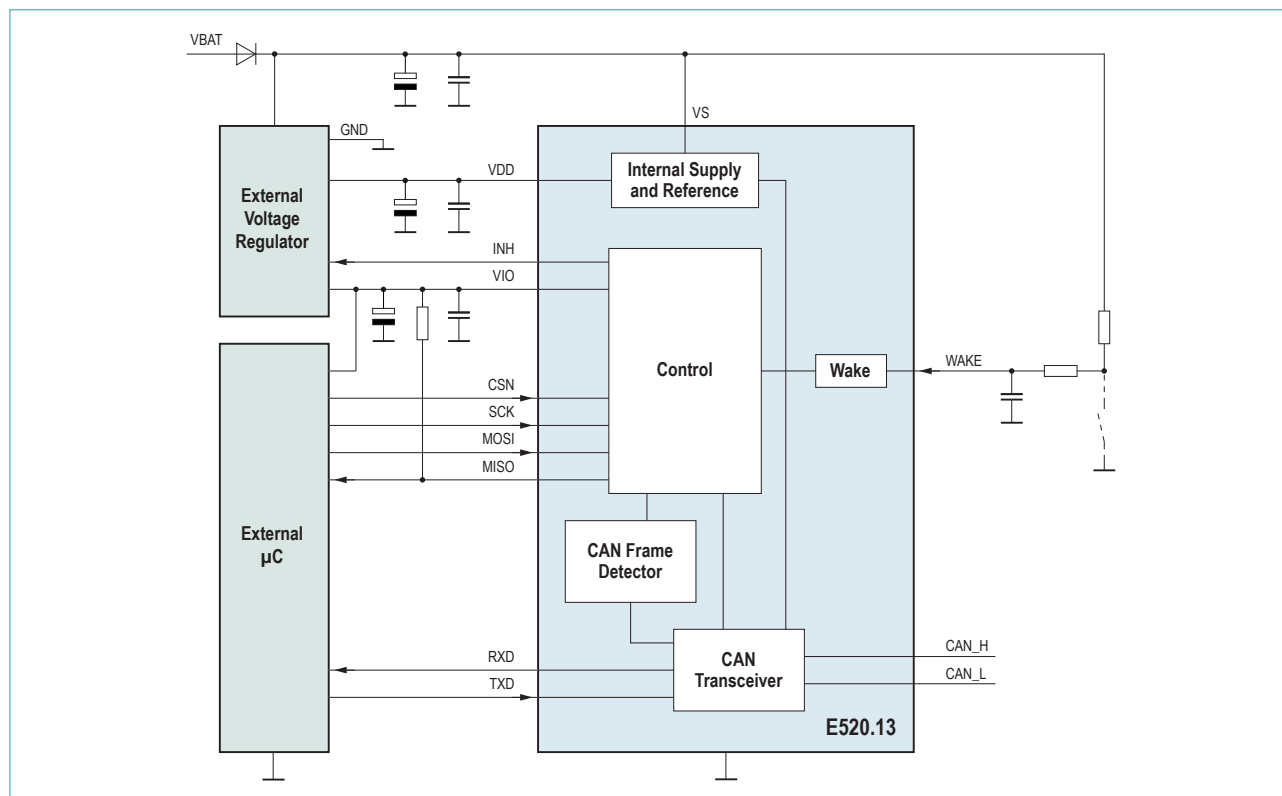
The E520.13 CAN transceiver is a physical interface for high speed CAN bus applications. It provides local and enhanced remote wake-up capabilities in an SO14 package.

ISO11898-5 remote wake-up using a sequence of dominant and recessive pulses is supported. In addition, the device is able to keep the ECU in low power mode even in the presence of bus traffic until a valid wake-up frame is received (selective wake-up). A CAN frame decoder evaluates the bus traffic and reacts upon a matching frame. The ID and payload of the frame to match can be configured in registers. The configuration of the device is done via SPI.

Ordering Information

Product ID	Temp Range	Package
E520.13	-40°C to +125°C	SOIC14N

Typical Application Circuit



Elmos Semiconductor AG reserves the right to change the detail specifications as may be required to permit improvements in the design of its products.

Elmos Support

04/2013

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