



## Product Brief

# TLS202B1MB V50

## Linear post regulator



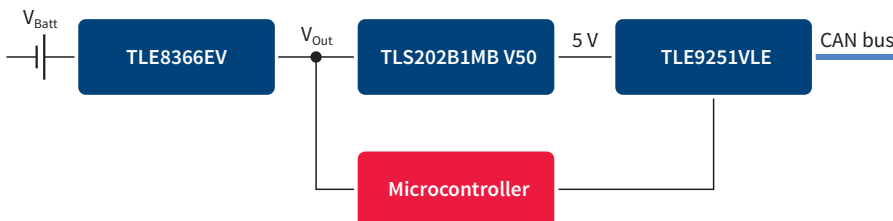
The TLS202B1 is a monolithic integrated fixed linear voltage post regulator for load currents up to 150 mA. The IC regulates an input voltage  $V_{in}$  up to 18 V to a fixed output voltage of 5.0 V with a precision of  $\pm 3$  percent. The component can be enabled/disabled via the enable input.

It is requiring a permanent connection to a pre-regulator e.g. a DC-DC converter. The regulator is not designed to operate with a direct connection to automotive 12 V battery. A pre-regulator has to be placed in front.

The device is designed for the harsh environment of automotive applications. Therefore it is protected against overload, short circuit and overtemperature conditions by output current limitation and an overtemperature shutdown circuit.

The device is available in a very small surface mounted SCT595 package. (Footprint 2.3 mm x 2.9 mm)

### TLE202B1MB V50 as CAN supply



### Key features

- > Output voltage: adj., 3.3 V 5.0 V
- > Input current: 150 mA
- > Low current consumption: 50  $\mu$ A
- > Drop voltage: 470 mV at 150 mA
- > Tiny package SCT595 with excellent thermal performance  $R_{thJA} = 81$  K/W
- > Enable

### Key benefits

- > Less system cost
- > Less filtering after DC-DC output
- > Very high ripple rejection
- > Suitable for cranking – 2.7 V input voltage
- > Power saving with enable feature
- > Excellent thermal management

### Applications

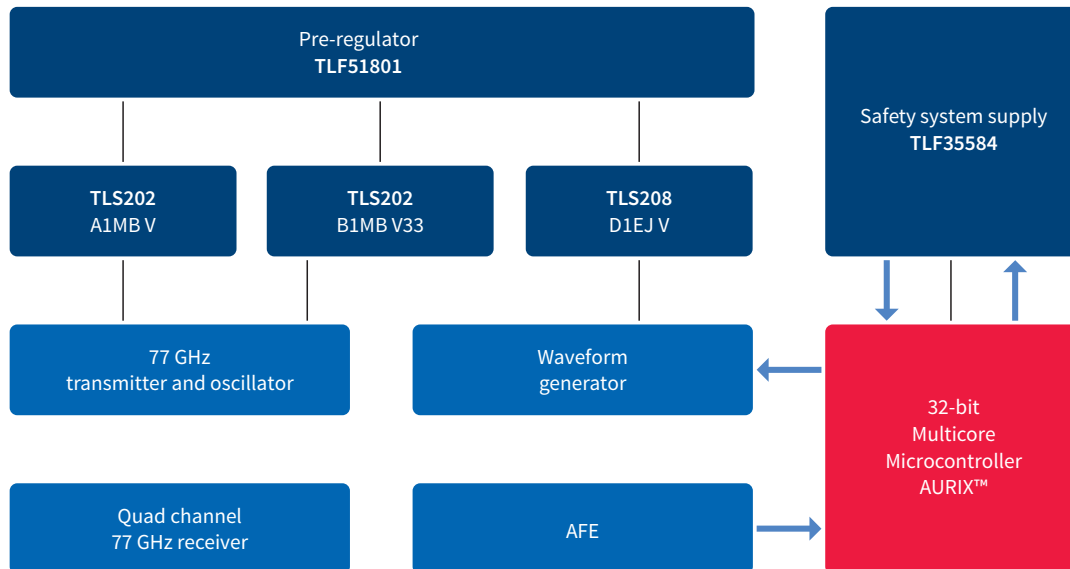
- > ADAS systems like radar and camera
- > Infotainment
- > Instrument cluster
- > CPUs
- > Any automotive application

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### Application example



### Order details

Sales name	Features	OPN	Package
TLS202A1MBV	$I_{out} = 150 \text{ mA}$ , $V_{out} = \text{adjustable}$	TLS202A1MBVHTMA1	SCT595
TLS202A1MBV	Demoboard	DEMOBOARDTLS202B1TOBO1	-
TLS202B1MB V33	$I_{out} = 150 \text{ mA}$ , $V_{out} = 3.3 \text{ V}$ , enable	TLS202B1MBV33HTMA1	SCT595
TLS202B1MB V33	Demoboard	DEMOBOARDTLS202B1TOBO1	-
TLS202B1MB V50	$I_{out} = 150 \text{ mA}$ , $V_{out} = 5.0 \text{ V}$ , enable	TLS202B1MBV50HTMA1	SCT595
TLS202B1MB V50	Demoboard	DEMOBOARDTLS202B1TOBO1	-

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