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# **SPSB081**

## **Automotive power management IC with LIN and CAN-FD**

SPS Macro Division

June 2023

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Every story starts somewhere ...



**Would you like to have a system basis chip with embedded LIN and CANFD transceivers for your applications needs?**

# SPSB081 automotive system basis chip family

## SPSB0815

LDO1 5.0 V	LDO2 3.3 / 5 V	CAN-FD
Wake-up	Watchdog	LIN
State machine	High-side Switch	SPI

## SPSB0813

LDO1 3.3 V	LDO2 3.3 / 5 V	CAN-FD
Wake-up	Watchdog	LIN
State machine	High-side Switch	SPI

## SPSB081C5

LDO1 5.0 V	LDO2 3.3 / 5 V	CAN-FD
Wake-up	Watchdog	
State machine	High-side Switch	SPI

## SPSB081C3

LDO1 3.3 V	LDO2 3.3 / 5 V	CAN-FD
Wake-up	Watchdog	
State machine	High-side Switch	SPI



# SPSB081 applications & key benefits

## Value proposition

“Thanks to the 2 embedded linear voltage regulators, CANFD & LIN transceivers and very low quiescent current, SPSB081 can be used for several electronic applications, simplifying the design.”



**Body Control Module**



**Sunroof module**



**NFC Door Handle**



# SPSB081 Success story

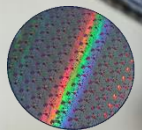
## Why did we win?

SPSB081 offers 2 embedded linear voltage regulators, CANFD & LIN transceivers and very low quiescent current, SPSB081 can be used for several electronic applications, simplifying the design:

- Very low quiescent current in standby modes (typ. 15  $\mu$ A)
- Current monitor output for all internal high-side drivers
- Open-load diagnosis for all outputs
- Overcurrent protection for all outputs
- V1 overvoltage detection and protection

## What was our differentiating factors?

- Smaller package than competition
- Very low quiescent current in standby mode
- Strong market acceptance by customers by its extreme flexibility



BCD9sL



AEC-Q100



QFN32 5x5 WF



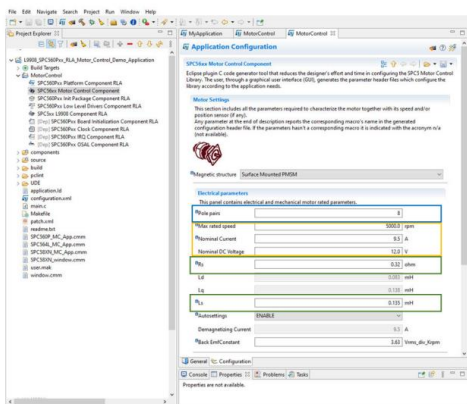
# AEK-POW-SPSB081

## Tools & Software

### AEK-POW-SPSB081



### SPC5-STUDIO + AutoDevKit Plugin



Datasheet  
Available



Eval-Board  
UM & GUI  
Coming soon



Selection Guide  
Available



Press Release  
Coming soon



Flyer  
Coming soon



Banner  
Coming soon

### Social Media Campaign



SPSB081 Product page [link](#) 

# Thank you

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