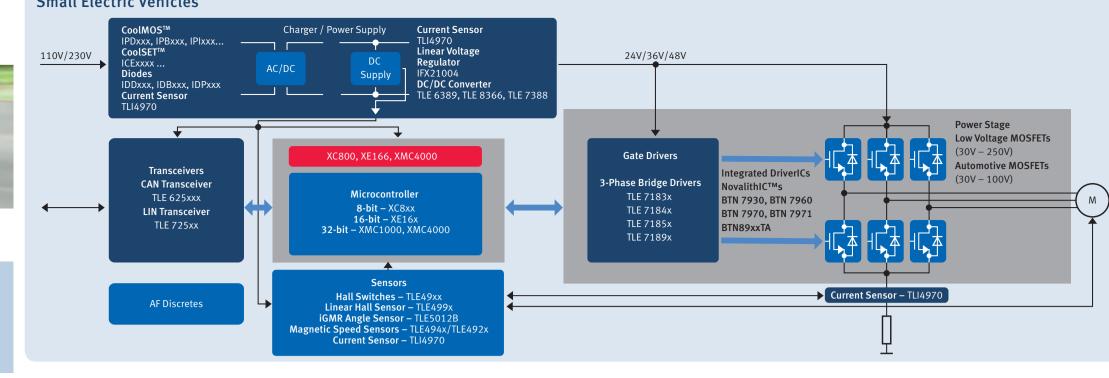
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Small Electric Vehicles



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2-/4-Wheeler Vehicles & Tools

Infineon Solutions for Small Motor Applications

### Solutions for 2-/4-Wheeler – Electric Drive e.g. Pedelec, eBike, eScooter, eKickboard, eCart, eBuggy, eQuad, ...



MOSFETs

Speed PROFET™

Bridge-driver ICs Hall Switches Angle Sensors

Engine Control Unit/ECU

MCUs + EMS + transceiver

Magnetic Speed Sensors

Motor bridges

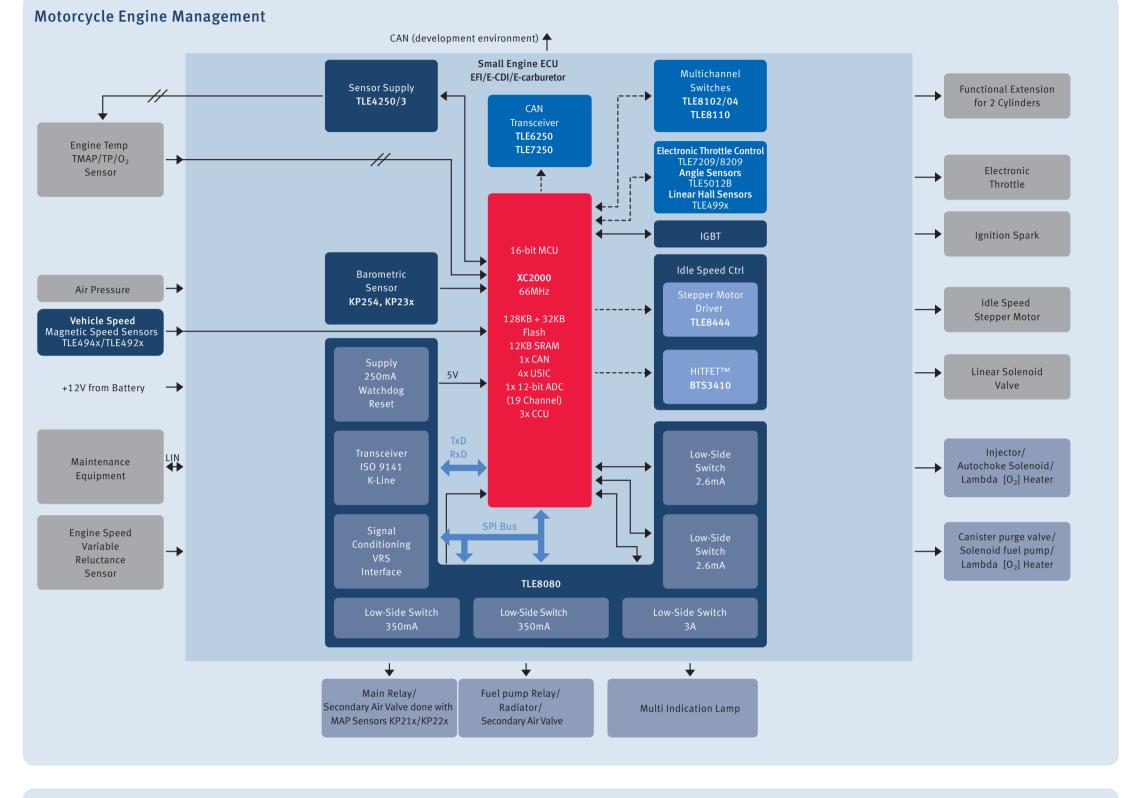
Supply ICs

Motor driver

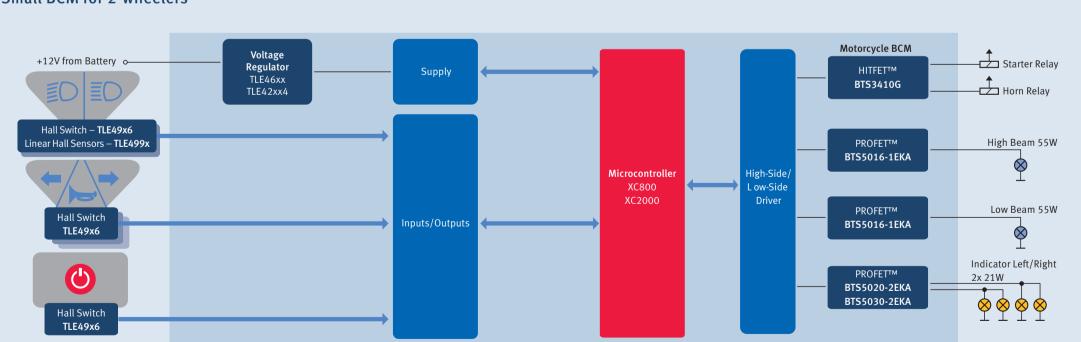
BAP/MAP

Hall Switches

Switches



# Small BCM for 2-wheelers



Solutions for Others – Combustion Drive e.g. Leaw Blower, Motor Saw, ...

### Engine Control Unit/ECU

MCUs + transceiver

Front-/Tail-Light/Blinker

Magnetic Speed Sensors

CAN/LIN Transceiver

Embedded Power

Safety/ABS

MCUs

Transceivers

MOSFETs

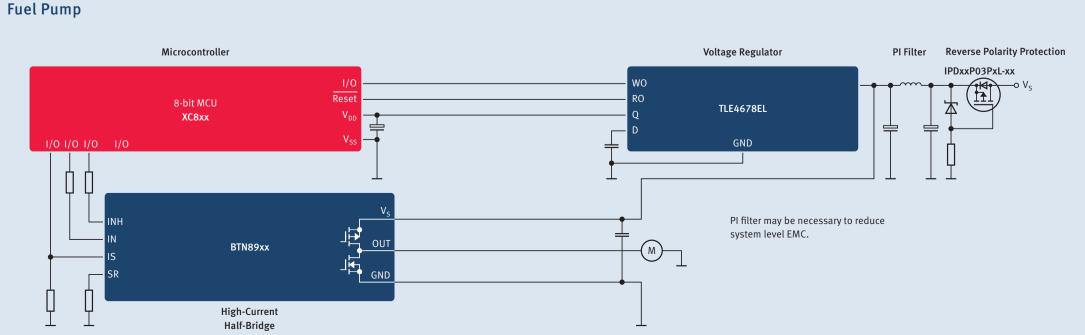
Supply ICs

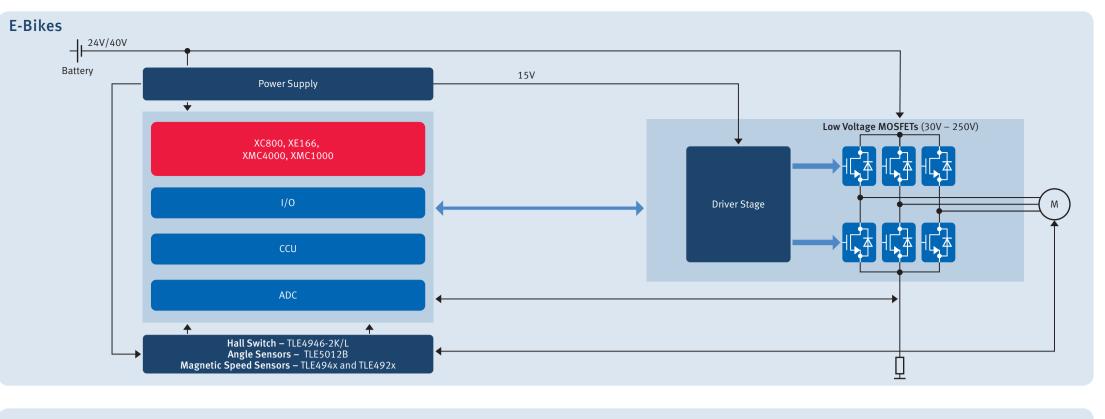
Stepper driver

- MCUs (XMC1000, XMC4000) + EMS
- Supply ICs
- Hall Switches Magnetic Speed Sensors
- Low-Voltage MOSFETs

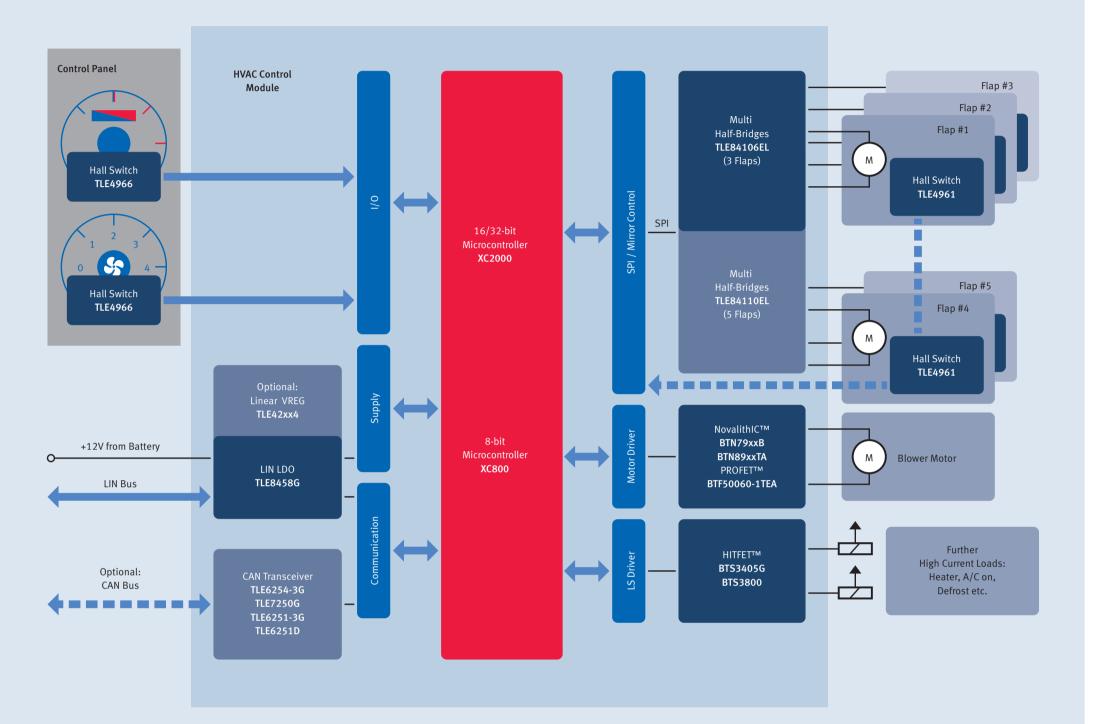


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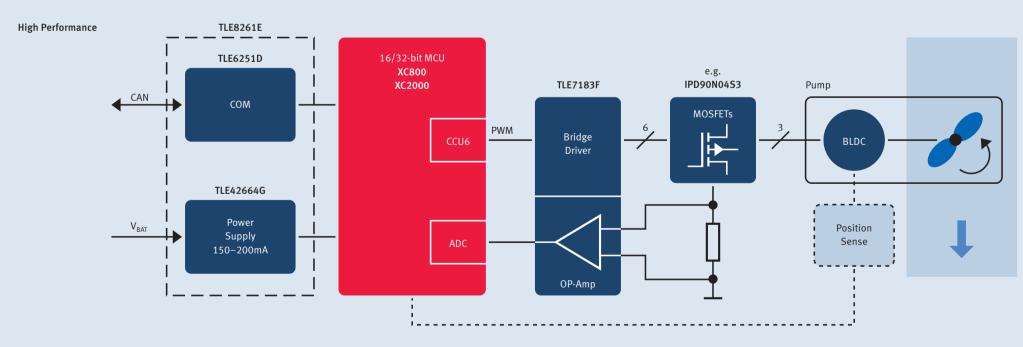


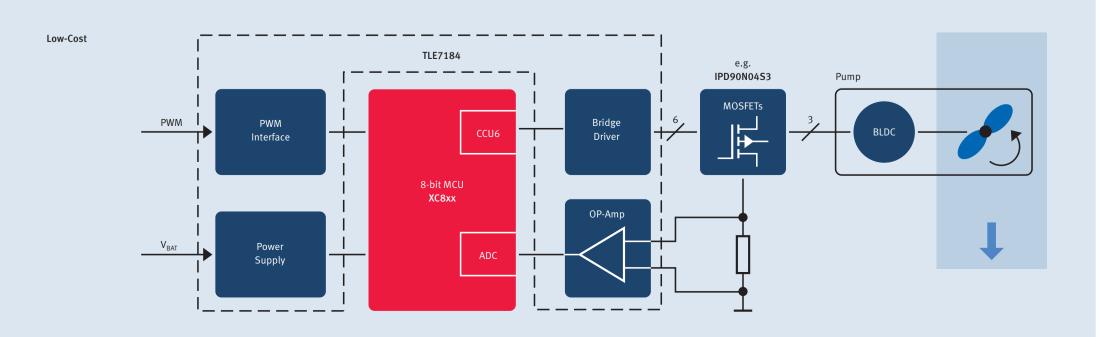


### **HVAC Control Module**









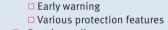


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Enable(Inhibit)

Watchdog

Very low drop-out

Best in quality

Small external components

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Industrial DC/DC Regulators and Controllers

Key Features

High input voltage even up to 60V

Switching frequency at 370kHz

Few external components required

High input voltage even up to 60V

Temperature range -40 °C ... +125 °C

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Devices available in various packages,

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CAN transceivers compliant to ISO 11898 standard

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Wide temperature range from -40 °C ... +150 °C

Wide Input voltage range from 3V to 45V

Linear Voltage Regulators

Device compatible to well known market established

LIN transceiver for cost efficient and low data rate communication

Output currents up to 1.5A

Device protection features

Very low drop out voltage

Low current consumption

Low quiescent current

standard parts

Key Features

Low power modes

Protection features

transceiver devices

Automotive

Key Features

🗆 Reset

Remote wake up capability

Low current consumption

Support of failure conditions

Temperature range -40 °C ... +125 °C

Devices available in DSO8 and DSO14 packages

Output currents up to 2.3A

Low current consumption

Device protection features

Enable feature

Key Features

Automotive

DC/DC Converter

# Key Features

- High-efficiency Wide supply voltage operation range
- Very low current consumption operation Output under-voltage reset with delay
- Overtemperature shutdown/protection
- Short-circuit protection
- Thermal enhanced exposed-pad packages

Visit: www.infineon.com/dcdc-converter

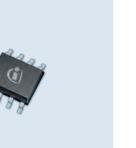
Low Voltage Power MOSFETs

# Key Features

- OptiMOS<sup>TM</sup> the right switch for your drives application □ Industry's lowest R<sub>DS(on)</sub> and high current capability Highest efficiency and power density
- Minimal device paralleling required Packages optimized for drives applications e.g. D<sup>2</sup>PAK 7pin and CanPAK™ Reduced package parasitic
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- Diagnosis

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