E523.06/E523.52
BLDC Motor Controller

E523.42
for small actuator and blower

E523.81
for low cost and low noise blower

Features
- $V_{bat}$ from 7V to 27V (for E523.06)
- $V_{bat}$ from 9V to 72V (for E523.52)
- Embedded 48MHz, 16bit µC with 32k Flash and 24kROM
- Co-Processor for PWM waveform generation
- LIN 2.2 or PWM Interface (for E523.06)
- MosFet Gate Driver with diagnostic functions
- Fast 1 Mega sample 12 bit ADC
- $T_{j,max}$ peak = +150°C

Applications
Automotive and Industrial BLDC Motors for:
- HVAC Blower
- Engine cooling fans
- Water, - Oil - and Fuel pump
- BLDC Actuator

Demo Code for different applications available:
- Current Zero Crossing Detection (CZCD) for low noise
- Field Oriented Control (FOC) for dynamic load

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E523.42
GRILL SHUTTER

E523.81
HEADLIGHT COOLING

Features
- $V_{bat}$ from 7V to 27V
- Embedded 32Bit ARM® M0 µC with 32kOTP, 24kROM, 256byte EEPROM
- SPI Interface for external sensors and 5V/20mA supply
- LIN 2.2 Autoaddressing Interface
- Integrated three halfbridge driver with up to 1A Phase-current
- $T_{j,max}$ peak = +170°C

Applications
Automotive and Industrial BLDC Motors for:
- Small Actuators
- Grill shutter
- Watervalve
- Blower - Bi-directional

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E523.81
WATERPUMP

E523.81
SEAT COOLING

Features
- $V_{bat}$ from 6V to 28V (3V to 42V)
- High integrated PMSM State Machine with OTP for parametrization
- Bi-directional PWM Interface
- Integrated three halfbridge driver with up to 0.5A Phase current
- ASIL B compliant
- $T_{j,max}$ peak = +170°C

Applications
Small blowers in Automotive and Industrial market:
- LED cooling
- Seat ventilation
- Decentral blower for building

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Motor Control - Highlights

- HVAC BLOWER E523.06
- ELECTRICAL ACTIVE SPOILER E523.06 | E523.52
- SEAT COOLING E523.81 | E523.42
- WATERVALVE E523.42
- AERODYNAMIC FLAPS E523.06 | E523.42
- WATERPUMP E523.06 | E523.52
- LED COOLING FAN E523.81
- COOLING FAN E523.06 | E523.52
- GRILLE SHUTTER E523.42