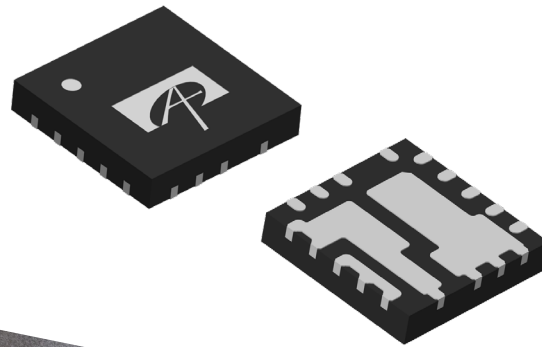




SMM, Smart Motor Module for BLDC Motor

AOS SMM products integrated half-bridge gate drivers with smart functions. The device includes one half-bridge gate driver, capable of driving internal high-side and low-side N-channel MOSFETs. Using two SMM products for single-phase motor drivers and three SMM products for three-phase motor drivers



PICs | SMM
for BLDC Motor



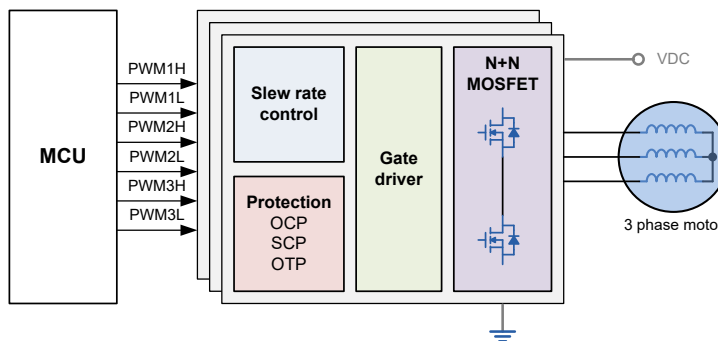
PICs | SMM, Smart Motor Module for BLDC Motor

Features

- Adjustable gate drive current control giving designers the ability to minimize EMI while maximizing power efficiency
- Self-powered Vcc
- 100% PWM duty operation
- Multiple advanced protections, SCP, OTP, Vcc UVLO and bootstrap UVLO
- Integrated 30V and 60V N-Channel MOSFETs by product

Applications

- BLDC Motor Drive
- Fans and Pumps
- Power Tools



Part Number	Package	Min VIN (V)	Max VIN (V)	MOSFET R _{dson} (mΩ)	Max Output Current(A)	Internal LDO	100% HS duty	Temperature Monitor	Operating Temp.(°C)
AOZ9510QV	QFN4x4	10.8	28	6	20	Yes	Yes	Yes	-40 - 125
AOZ9511QV	QFN4x4	3.8	28	7.5	20	No	Yes	Yes	-40 - 125
AOZ9530QV	QFN3x3	10.8	28	11	7	Yes	Yes	No	-40 - 125
AOZ9551QV	QFN5x5	10.8	56	10	12	Yes	No	Yes	-40 - 125



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