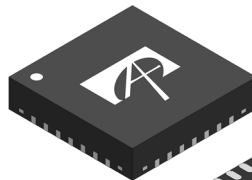
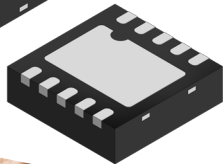
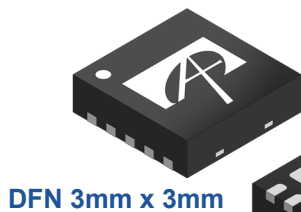




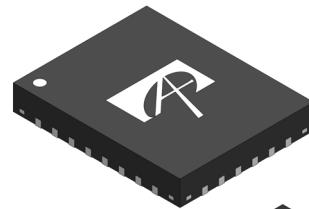
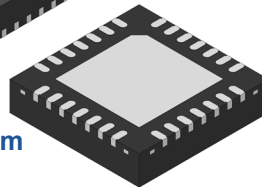
Motor Driver IC for BLDC

AOS introduces new driver IC product family for Brushless DC (BLDC) motor control applications.

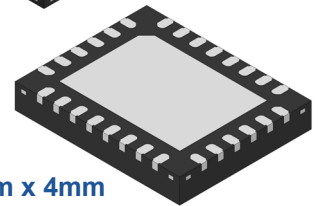
- The new High Voltage Driver IC supports a wide range of input voltages in a compact QFN/DFN package
- Superior driving ability, programmable dead time, and sleep mode support deliver high motor operation efficiency
- Low standby power consumption, hence greatly increasing the battery life of cordless power tools and e-mobility



QFN 4mm x 4mm



QFN 5mm x 4mm



Power ICs



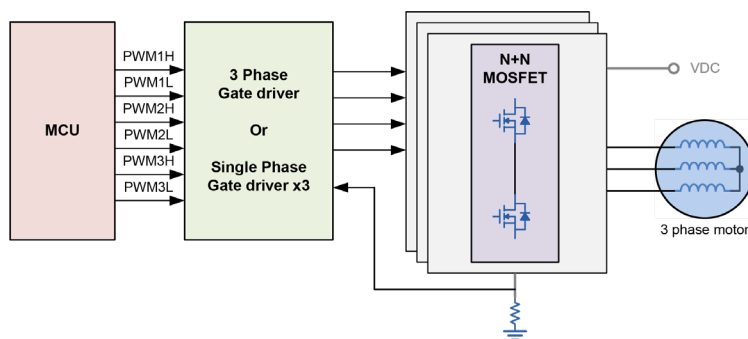
Power ICs | Motor Driver IC for BLDC

Features

- Wide Input Voltage Range
- Integrated Bootstrap Diode
- 0.8A Source and 1A Sink Current Capability at least
- Trickle Charge Pump Support 100% PWM Duty Cycling
- Integrated Current Sense Amplifier to Feedback Total Current
- Adjustable Dead-Time Control
- Sleep Mode for Power Saving
- Fault Indication Output
- Thermal Shutdown and VDD UVLO Protection

Applications

- Brushless DC Motors
- Permanent Magnet Synchronous Motors
- Fans and Pumps
- Power Tools
- E-Bike and E-Scooter



Part Number	Topology	Package	Max VIN (V)	Driving Source/Sink Current (A)	Self Powered	Current Sense	OCP	Adjustable Dead Time	Fault Indication
AOZ32103MQV	3-Phase	QFN5x4_28	100	0.8/1	No	Yes	No	Yes	Yes
AOZ32103MQV-06	3-Phase	QFN5x4_28	60	0.8/1	No	Yes	No	Yes	Yes
AOZ32063MQV	3-Phase	QFN4x4_28	60	0.8/1	Yes	No	Yes	Yes	Yes
AOZ32101MDV	Half-Bridge	DFN3x3_10	100	1.5/2.5	No	No	No	No	No



AOS SALES OFFICES

UNITED STATES

475 Oakmead Pkwy
Sunnyvale, CA 94085
Phone: +1 (408) 830-9742
Email: Inquiries@aosmd.com

EUROPE

Phone: +49 7941 9039988
Email: AOSEurope@aosmd.com

JAPAN

16F Yurakucho Itocia
Office Tower
2-7-1 Yurakucho, Chiyoda-ku
Tokyo 100-0006
Phone: +81 (3) 6826-1401
Email: AOSJapan@aosmd.com

SOUTH KOREA

10th Floor, Bandi Building
Bongeunsa-ro 114
Gangnam-gu
Seoul 135-907
Phone: +82 (2) 557-8501
Email: AOSKorea@aosmd.com

TAIWAN

19F., No. 239, Sec. 2, Tiding Blvd.
Neihu District
Taipei City 114755
Phone: +886 (2) 8751-5616
Email: AOSTaiwan@aosmd.com

HONG KONG

Room 701, Tesbury Center
28 Queen's Road East
Wanchai
Phone: +86 (755) 8351-7733
Email: AOSChina@aosmd.com

CHINA

SHENZHEN

East 8/F, Matsunichi Building
#9996 Shennan Blvd.
Shenzhen 518057
Phone: +86 (755) 8351-7733
Email: AOSChina@aosmd.com

SHANGHAI

Room 602-603
Central Park Jing'an
329 Hengfeng Road
Jing'an District
Shanghai 200070
Phone: +86 (21) 6353-3218
Email: AOSChina@aosmd.com

To contact any of our sales partners worldwide, please visit our website at: www.aosmd.com/contact

Alpha and Omega Semiconductor Limited (AOS) is a designer, developer, and global supplier of a broad range of discrete power devices, wide bandgap power devices, power management ICs, and modules, including a wide portfolio of Power MOSFET, SiC, IGBT, IPM, TVS, HV Gate Drivers, Power IC, and Digital Power products. AOS' portfolio of products targets high-volume applications, including personal computers, graphics cards, datacenters, AI servers, smartphones, consumer and industrial motor controls, TVs, lightings, automotive electronics, and power supply units for various equipment.



Powering a Greener Future™