

# Sensing and **Power IC Solutions**

Our Energy Efficient ICs are at the Core of Sensing, Regulating, and Driving All Electrical and Electronic Equipment

Allegro's XtremeSense<sup>™</sup> TMR Technology Enables Current and Position Sensors to Achieve Industry-leading Performance

	Magnetic Sensor ICs			Power ICs			
	SENSE			REGULATE & DRIVE			
	Current	Position	Speed	Regulators	Motor	Gate Drivers	Isolated Gate Drivers
xEV Powertrain	۲	۲	٢	۲	٢	۲	۲
ADAS	۲	٢	$\bigcirc$	۲	۲	۲	
Clean Energy	۲	٢			۲	۲	۲
Data Centers	۲				۲		۲
Industrial	۲	۲	۲	۲	۲		۲
ADAS Clean Energy Data Centers	<ul> <li>•</li> </ul>				0	© ©	<ul> <li></li> <li></li></ul>

### Sense

**3D Magnetic** 

Accurately measure current in a circuit, precisely detect position in 1, 2, or 3 dimensions, and measure linear and angular movement, rotational speed, and more.

Current Sensors	Speed Sen
Integrated Conductor	Camshaft
Field Sensors	Crankshaf
Position Sensors	E-Motor S
Switches and Latches	Transmiss
1D Linear	Wheel Spe
2D Angle	-

### nsor Sensor

ft Sensor Speed Sensor sion Sensor eed Sensor

### Regulate

Robust, automotive-grade DC-DC regulators, power modules, and LED drivers translate power from high to low voltages and regulate it for safe and reliable powering of components.

#### **ClearPower Modules**

LED Driver Modules

Regulator Modules

#### **LED Drivers**

- Regulators
- Multiple Output Regulators

Single Output Regulators





# Drive

Our motor and isolated gate drivers, simplify designs, minimize board space, and reduce costs. Embedded motion control algorithms **improve your motor** performance and time to market.

**Brushless DC Motor Drivers Brushed DC Motor Drivers Stepper Motor Drivers Isolated Gate Drivers Gate Drivers** 







# Moving the World Toward a Safer and More Sustainable Future.







# e-Mobility

Vehicle electrification and autonomous driving (ADAS)

Advanced powertrain solutions, unmatched safety standards, and energy efficient systems help you develop world-class vehicles.

- Extend driving range
- Faster charging
- ISO 26262 compliant

## **Clean Energy**

Renewable energy generation, transmission and storage

Highest accuracy, bandwidth and integration increases power conversion efficiency.

- Improve system safety
- More power in less space
- Improve thermal efficiency

# Industrial

Intelligent automation and cloud infrastructure

\_\_\_\_

Accurate sensing and efficient motor drivers speed up automation across industries.

- Speed and precision
- Simplification and efficiency
- Safety and reliability



