

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[™] 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	 • 				0	© ©	

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



