

DRIVING CHANGE: ADVANCING PERSONAL MOBILITY THROUGH CUTTING-EDGE TECHNOLOGY

The Gold Standard in Performance,
 Efficiency, and Reliability



www.allegromicro.com/personalmobility

Allegro MicroSystems specializes in developing innovative solutions for Electric Vehicles (EV) and Internal Combustion Engine (ICE) vehicles. Our advanced sensor and power IC solutions are engineered specifically to meet the unique requirements of these designs, providing superior performance and reliability in harsh environments and under complex operating conditions.

Driven by innovation and long history servicing the automotive market, Allegro offers state-of-the-art magnetic current sensors, 1, 2, and 3D position sensors, integrated magnet wheel speed sensors, and intelligent motor drivers that help you take your design to the next level in terms of energy efficiency, size, reliability, and robustness. Allegro's offerings improve, simplify, and differentiate your final product.

Stay ahead of the technological curve in
 the ever-evolving transportation industry

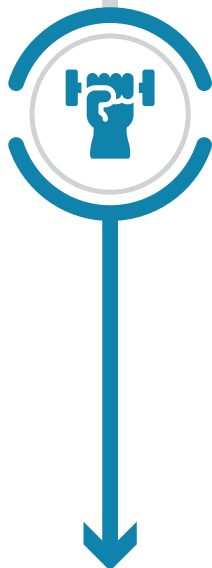
We are a trusted and reliable partner to many global customers in the Personal Mobility segment with > 50M+ ICs shipped annually.



Maximized Power Efficiency

For reduced energy consumption and costs

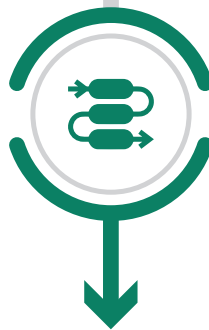
- Low ohmic losses and thermal dissipation
- High voltage ratings



Robust System

For ensuring operational reliability

- Stable lifetime operations
- Low maintenance



Streamlined System Design

For reduced Bill of Materials (BoM) and board space requirements

- Integrated solutions
- High power density



Safe and Efficient Operations

For ensuring safe and efficient operations

- Fast out-of-range detection and diagnostics



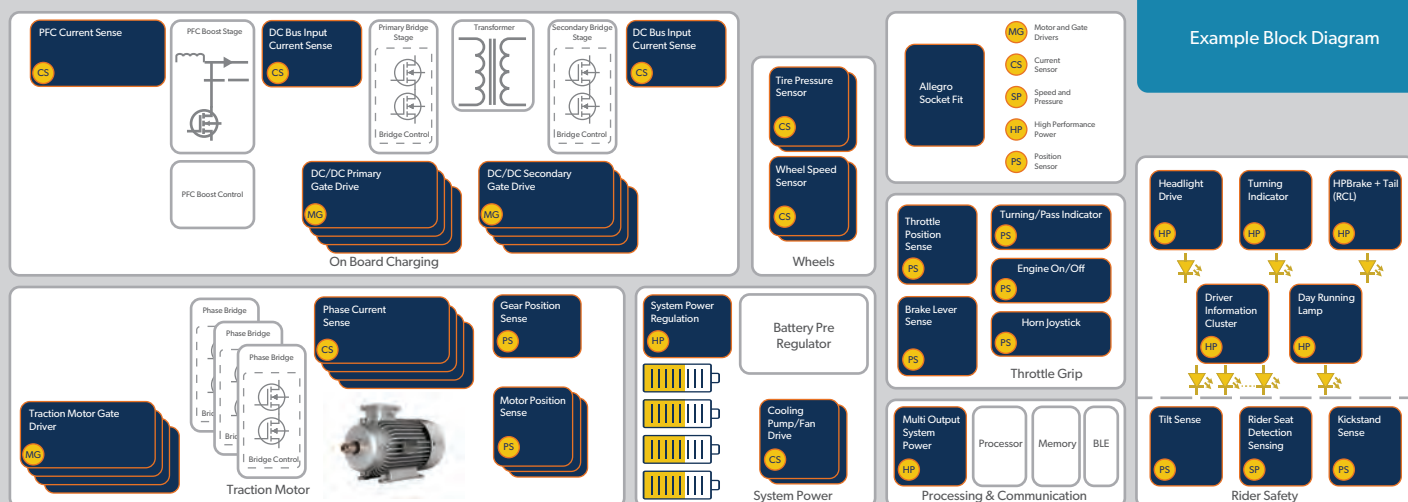
Accelerated Time-to-Market

For optimized turn-around-time

- Easy-to-use turnkey solutions
- Strong technical support
- Automotive-inspired product quality

Key Products for Electric 2-wheelers (E2W)

Transform your design challenges with our innovative solutions that sense, regulate, and drive.



Key Products and Solutions for EV Personal Mobility

Complete list of available products and solutions can be found on the Personal Mobility site.

Function	Component	Allegro Product	Evaluation Board
Motor Control	Brush DC Driver	A89500	APEK89500GEJ-01-T
	BLDC Driver	AMT49100	APEK49100KJP-A-03-T
	BLDC Driver	A5947	APEK5947GET-01-T
Motor Current Feedback	Current Sensor	ACS724	ASEK724LLC-30AB-T
	Current Sensor	ACS71240	ASEK71240EXB-030B3
	Current Sensor	ACS772	ASEK772ECB-200B-T
Motor Position Feedback	Position Sensor	AAS33001	N/A
Wheel	Speed Sensor	ATS19480	N/A
Sprocket	Hall Effect Latch	APS1262x	N/A
Tilt, Level, Side Stand	Position Sensor	A1308	N/A
	Position Sensor	A1330	ASEK1330-SUBKIT-T
	Hall Effect Switch	A112x	N/A
Throttle	Position Sensor	A31315	ASEK31315-SUBKIT-T
Illumination	LED Driver	A6217-1	APEK6217KEJ-01-MH-0
	LED Driver	A6260	APEK6260KLJ-01-T
	LED Driver	APS13568	ASEK13568KLJA
	Hall Effect Switch	APS11700	N/A
Battery and Charging	Current Sensor	ACS711	ASEK711KEX-15AB-T
	Switching Regulator	A8586	APEK8586KEJ-01-MH
LCD Bias	Switching Regulator	A8603	APEK8603KES-01-MH
LCD Backlight	LED Driver	A80601	APEK80601KES-01-MH

Purpose-built Solutions for Superior Vehicle Experiences

Upgrade your transportation experience with futuristic innovation — where cutting-edge technology meets unmatched convenience for personal and industrial applications.

- Higher Integration
- Robust Packaging
- ISO26262 Safety
- Energy Efficient
- Automotive Quality

