



DRIVING CHANGE: ADVANCING PERSONAL MOBILITY THROUGH CUTTING-EDGE TECHNOLOGY

The Gold Standard in Performance,
 Efficiency, and Reliability

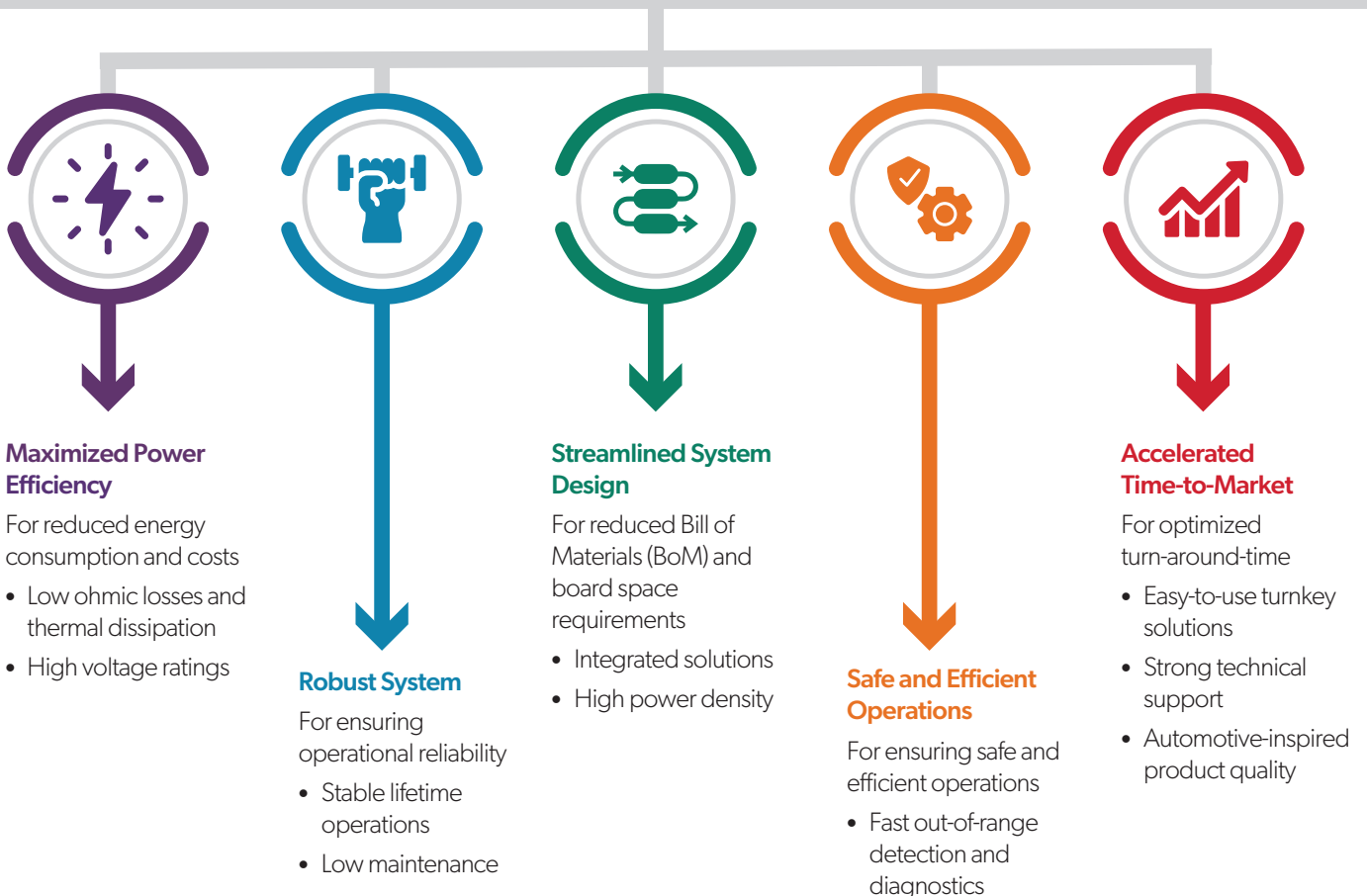
www.allegromicro.com/personalmobility

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.

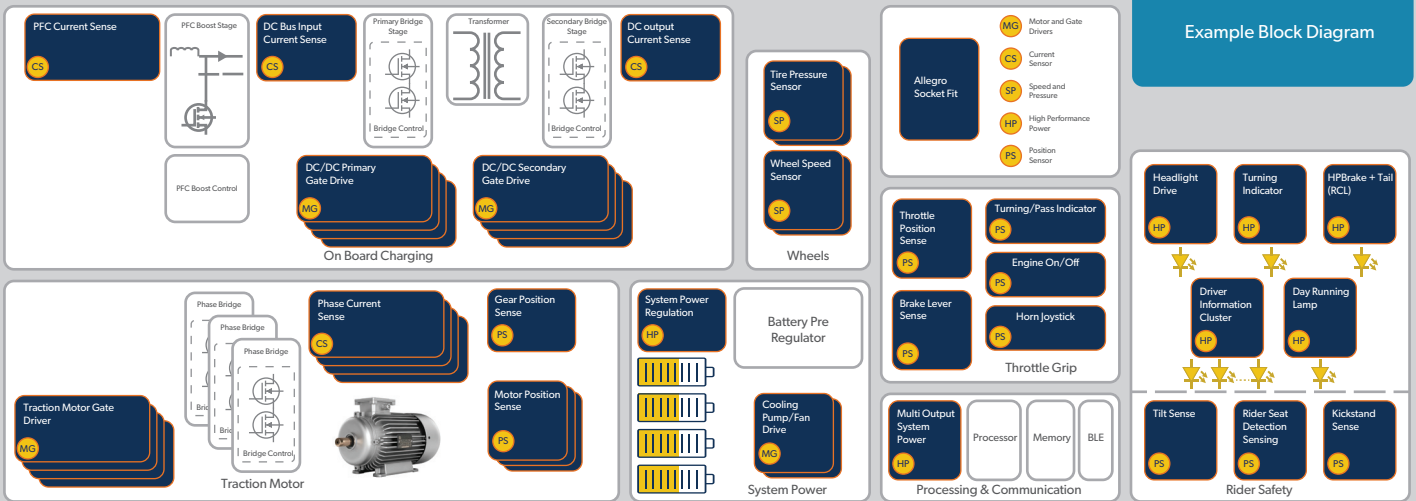
Stay ahead of the technological curve in the ever-evolving transportation industry

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



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 | Application | Component | Allegro Product | Evaluation Board |
|-------------------------|---|---------------------|--------------------------------|--|
| Motor Control | Brush DC motor/ Solenoid driver | HB Driver | A89500 | APEK89500GEJ-01-T |
| | Traction Motor | BLDC Driver | AMT49100 | APEK49100KJP-A-03-T |
| | Battery cooling fan/pump | BLDC Driver | A5947 | APEK5947GET-01-T |
| Motor Current Feedback | Core based current sense | Current Sensor | ACS70311 | N/A |
| | Coreless current sense | Current Sensor | ACS37610 | A SEK-37610-QRIFT-DC-PCB |
| | Coreless current sense | Current Sensor | CT455 | CTD455-PT-06B3 (3.3V) CTD455-PT-06B5 (5.5V) |
| | Integrated bus bar current sense | Current Sensor | ACS772 | A SEK772ECB-200B-T |
| Motor Position Feedback | Rotor position sensing | Position Sensor | AAS33001 | N/A |
| | Rotor position sensing | Position Sensor | CT310 | EVB310 |
| | Rotor position sensing | Position Sensor | A33230 | N/A |
| Wheel | Wheel speed sensor ABS | Speed Sensor | ATS19480 | N/A |
| Sprocket | PAS sensor | Hall Effect Latch | APS12625 | N/A |
| Linear position sensor | Brake Level sensing | Position Sensor | A1308 | N/A |
| | Tilt, Lever, Side Strand | Position Sensor | CT8150, CT8152 | CTD8103 |
| Magnetic Switches | Tilt, Side Stand, Turning Pass Indicator, Engine on/off, Horn | Position Sensor | APS11202 | N/A |
| | | Position Sensor | CT8131, CT8132 | CTD8103 |
| Angle Sensor | Throttle (APS) | Position Sensor | A31315 | A SEK31315-SUBKIT-T |
| | Level and Throttle Sensor | Position Sensor | CT310 | EVB310 |
| Illumination | Head Lamp, DRL | LED Driver | A6217 | APEK6217KEJ-01-MH-0 |
| | Stop-Tail, DRL, Blinker | LED Driver | A6263 | N/A |
| Battery and Charging | Current sensor | Current Sensor | ACS711 | A SEK711KEX-15AB-T |
| | DC-DC regulator | Switching Regulator | A8586 | APEK8586KEJ-01-MH |
| LCD Bias | | Switching Regulator | A8603 | APEK8603KES-01-MH |
| LCD Backlight | | LED Driver | A80601 | APEK80601KES |

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



SCAN ME

