



GaNEXUS™

Where Power Performance
Meets System Design



GaNEXUS™ Gallium Nitride Power Solutions

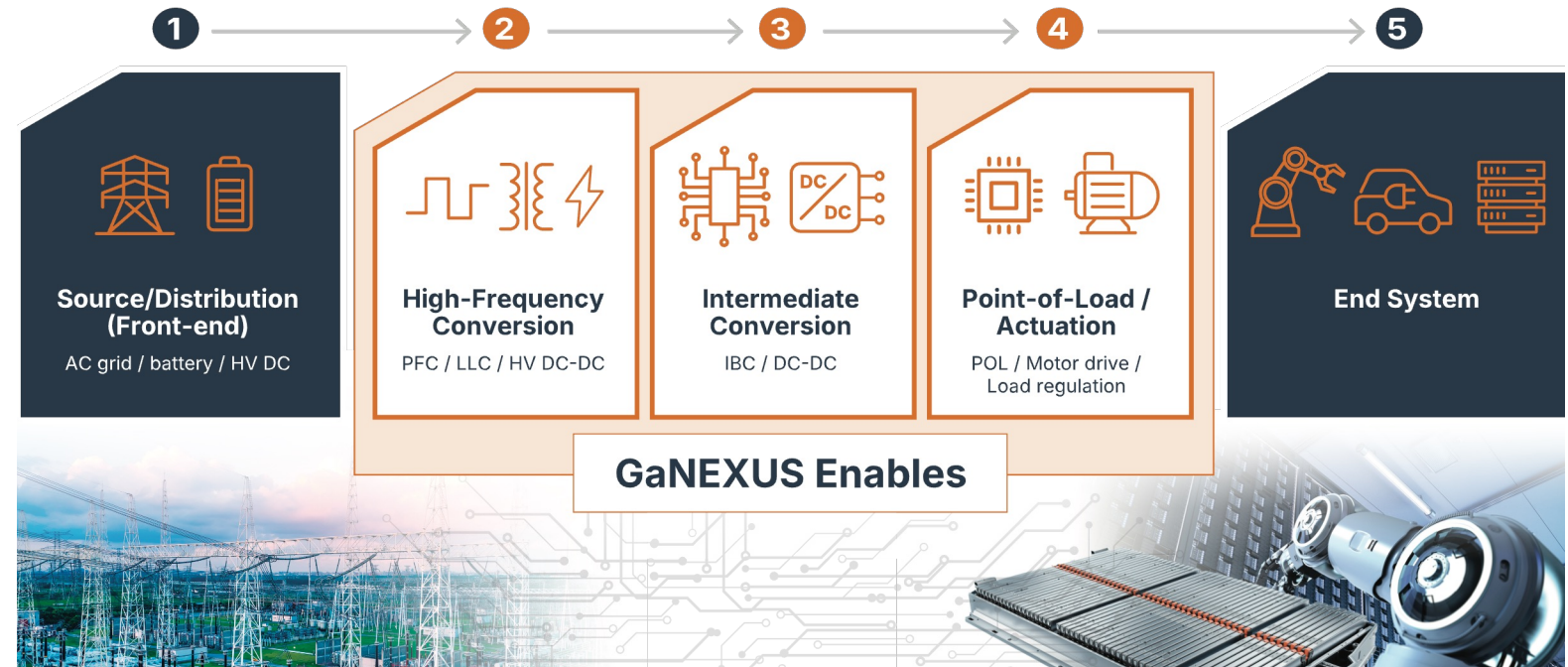
Where Power Performance Meets System Design

Powering Modern Architectures with GaN

- onsemi GaN power portfolio, enabling high-efficiency, high-density power conversion across modern systems
- Designed to apply GaN where it delivers the greatest **system-level impact**
- Spans low- to high-voltage GaN FETs, BDS, and integrated power solutions
- Part of broader intelligent power strategy across silicon, SiC, and GaN

GaN Power Conversion Architecture

From Source to Load



Higher efficiency & power density | Smaller, more integrated systems | Designed for real-world deployment

A Scalable GaN Portfolio for Modern Power Systems

■ GaNEXUS FETs

- Low- to high-voltage GaN HEMTs
- Optimized for high-efficiency power conversion

■ GaNEXUS BDS

- Bidirectional GaN switches enabling efficient two-way power flow
- Simplifies architectures by reducing component count
- Supports energy transfer, storage, and multi-directional power systems

■ GaNEXUS Integrated Power

- Drive, Smart, Control functionality
- Enables compact, intelligent power stages

System value

- ✓ Smaller magnetics and passives
- ✓ Higher power density (up to ~2x in optimized systems)
- ✓ Improved efficiency and reduced losses
- ✓ Lower thermal burden and cooling requirements
- ✓ Simplified system design and faster deployment

onsemi advantage

1

System-level power expertise, wide band-gap and intelligent power ICs

2

onsemi quality and reliability

3

Scalable supply and deployment-ready solutions

Enabling Next-Generation Power Systems



AI Data Centers

- High-density power delivery and intermediate bus conversion



Robotics & Industrial Automation

- Compact motor drives and distributed power systems



Automotive Electrification

- DC-DC, onboard charging, and multi-voltage systems



Energy Infrastructure

- Efficient power conversion and energy storage systems



GaNEXUS enables **scalable, efficient power architectures**, delivering real **system value** from source to load.