



GATE-DRIVER- EVALUATION-KIT

Advances in power electronics will have a major impact on the future of electrification. Electric vehicles, energy storage systems, and industrial use cases will benefit from the many possibilities presented by this innovative technology. Our gate driver evaluation kit is the perfect platform for driving the future of electrification and developing innovative solutions.



BOARD-FUNCTIONS

- Accessibility of all pins through test points
- 10 status LEDs for monitoring the power supply and communication
- μ C-independent control through standardized Arduino format
- Board control and diagnostics via CRC8-secured, self-synchronizing, efficient ITK bus communication (UART)
- Modular PCB design for flexible connection of different power modules and compliance with the required distances
- Operating voltages up to 1000V and safe isolation (< 1kV)
- Minimum test pulse length of 100ns



ASIC-FUNCTIONS

- Double-pulse test for evaluating the switching behavior of the power module (switching losses versus EMC) and trimming the current profile
- Short-circuit test for evaluating overcurrent detection
- Parameterizable current profiles available



GRAPHICAL USER INTERFACE (GUI)

- Predefined commands at the click of a mouse
- ASIC functions and current profiles can be parameterized
- ASIC monitoring visualized
- Command list can be set via JSON file
- Command history can be viewed and exported as a JSON file



YOUR BENEFITS AT A GLANCE

- Expandable and updateable firmware
- Technical support for the integration and connection of your preferred μ C
- AUTOSAR-compliant driver development possible
- Comprehensive user manual available
- Flexibility and expandability for individual adaptations
- Fast evaluation of ASICs and prototype development
- Scope of delivery: Infineon TC375 Shieldbuddy with firmware, EG12x evaluation board, desktop application

Learn more:

[Link zu BOSCH EG120](#)