

EVAL_TLE9180D-31QK

This evaluation board has the purpose to quickly get familiar with the gate driver IC **TLE9180D-31QK** and evaluate the functions. The board can be operated at an input voltage range from 12 V up to 48 V DC.

Summary of Features

- Main board with the 3-phase gate driver IC, MOSFET power stage and auxiliary components
- Pre-flashed microcontroller board using the Infineon XC2785X-104F to establish a communication link between the driver IC and the PC
- USB cable to connect the microcontroller to a PC
- Graphical user interface for register easy access to the driver IC (available for Microsoft Windows only)

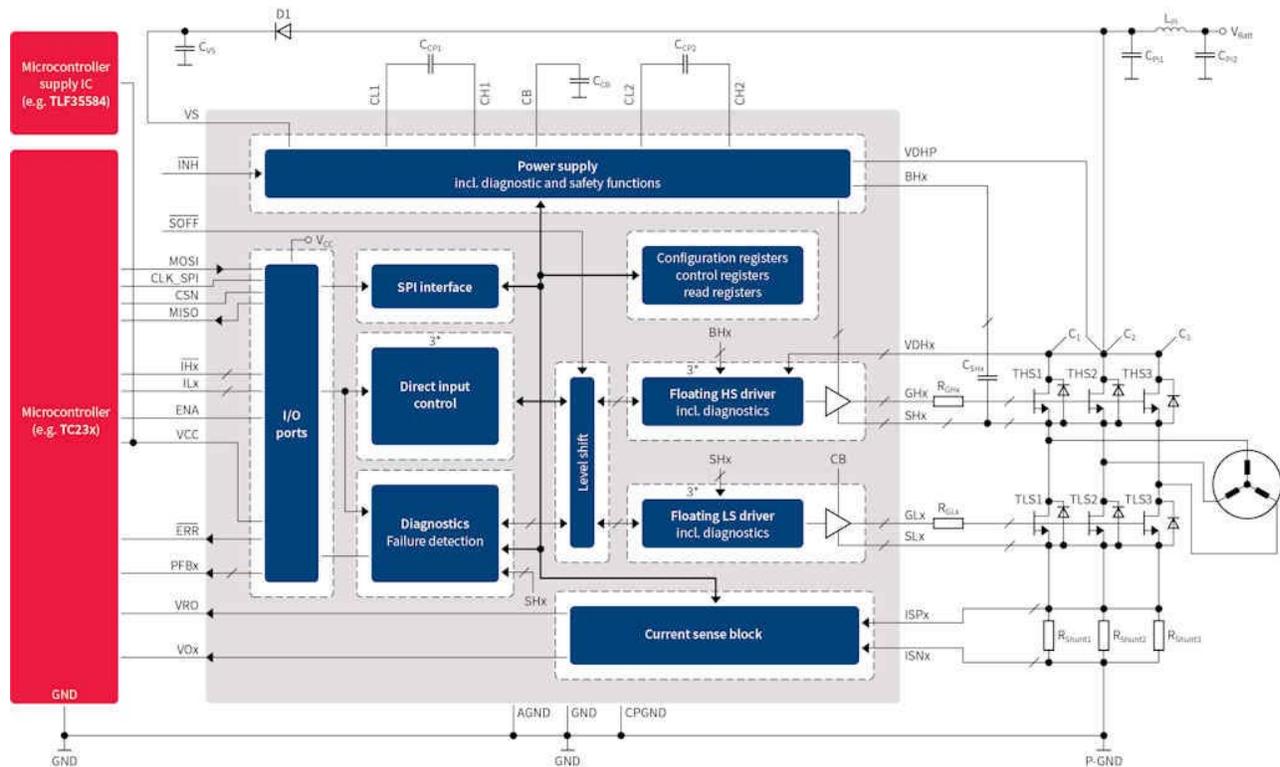
Potential Applications

- 48 V motor drives
- Cooling fans
- Water pump
- Oil Pump
- HVAC compressor
- Commercial and agricultural vehicles

Access to complete technical documentation including application notes and design tools:

1. Please register under myinfineon.com with your company e-mail address
2. Send login name to: motordriver@infineon.com
3. Automated update service will be provided for new documents once you are registered
4. Full registration process might take up to 24h to be completed (due to different time zones)

Diagrams



Parametrics

| | |
|-------------------------------|--|
| Parametrics | EVAL_TLE9180D-31QK |
| Family | 3-phase gate driver IC ; Microcontroller |
| Input Type | DC |
| Output Voltage min max | 12.0 V 48.0 V |
| Product Description | Evaluation board for TLE9180D-31QK to quickly get familiar with the gate driver IC. The board includes power MOSFETs and a microcontroller on a daughter card. The board comes together with a GUI to easily establish the SPI communication and get it running. |
| Qualification | Automotive |
| Supply Voltage min max | 12.0 V 48.0 V |
| Target Application | Automotive ; Motor Control & Drives |
| Topology | 3-Phase Inverter |
| Type | Evaluation Board |
| Parametrics | EVAL_TLE9180D-31QK |

Order

| | |
|---------------------------|---------------------------|
| Sales Product Name | EVAL_TLE9180D-31QK |
| OPN | EVALTLE9180D31QKTOBO1 |
| Product Status | active and preferred |
| Package name | -- |

| | |
|-----------------------------|---------------------------|
| Sales Product Name | EVAL_TLE9180D-31QK |
| Order online | |
| Completely lead free | |
| Halogen free | |
| RoHS compliant | no |
| Packing Size | 1 |
| Packing Type | CONTAINER |
| Moisture Level | |
| Moisture Packing | NON DRY |