New Product Introduction

February 2026

ESD AND SURGE PROTECTION DEVICES

ESD175-B1-W01005 ESD protection device

ESD178-B1-W0201 ESD protection device

ESD179-B1-W0201 ESD protection device

ESD188-B1-W0201 ESD protection device

POWER

EconoPACK™ 3 TRENCHSTOP™ IGBT 1200 V H7 for ESS

EasyPACK™ 2B TRENCHSTOP™ IGBT5 650 V H5 – HVAC, heat pump

MOTIX™ TLE9186QVW gate driver IC for BLDC motors

MOTIX™ TLE92102QVW gate driver IC for BDC motors

OptiMOS™ 6 power MOSFETs in 80 V

TRENCHSTOP™ IGBT7 1200 V S7 D2PAK

CoolMOS™ CFD7 SJ power device 650 V

CoolSiC™ MOSFET discrete 1200 V G2 7 mΩ in TO-247 4pin with high creepage package

SENSOR TECHNOLOGY

XENSIV™ – KP497 Smart Barometric Pressure Sensor

EVALUATION BOARDS

REF_3K3W_3LFC_PSU 3.3 kW high-frequency and high-density PSU

BBTS500101LUA1TOBO1 enabling capacitive load charging

TRAVEO ™ T2G CYT4BF Complete System Motor Control Kit

ESD175-B1-W01005 ESD protection device

Bi-directional ESD protection device, 1 V, 0.11 pF, 01005.

This Infineon ESD (electrostatic discharge) protection device has a bi-directional and symmetric I/V characteristic and excellent clamping performance.

Features

- Low insertion loss
- Low clamping
- Bi-directional protection device
- Small package

Benefits

- Improved system reliability
- Absolute minimum board space
- Best protection allows engineers to focus on higher value portions of their designs

Competitive advantage

- Low insertion loss for high-speed data lines

Target applications

- USB4, USB 3.x Gen 1/Gen 2
- Thunderbolt 3, Thunderbolt 4
- User interface
- General I/O
- Small form factor applications (wearables)

Product collaterals / Online support

Product page

Block diagram

Product overview incl. datasheet link

OPN	SP Number	Package
ESD175B1W01005E6327XTSA1	SP005960049	SG-WLL-2

ESD178-B1-W0201 ESD protection device

Bi-directional ESD protection device, 1 V, 0.21 pF, 0201.

This Infineon ESD (electrostatic discharge) protection device has a bi-directional and symmetric I/V characteristic and excellent clamping performance.

Features

- Low insertion loss
- Low clamping
- Bi-directional protection device
- Small package

Benefits

- Improved system reliability
- Absolute minimum board space
- Best protection allows engineers to focus on higher value portions of their designs

Competitive advantage

- Low insertion loss for high-speed data lines

Target applications

- USB4, USB 3.x Gen 1/Gen 2
- Thunderbolt 3, Thunderbolt 4
- User interface
- General I/O
- Small form factor applications (wearables)

Product collaterals / Online support

Product page

Block diagram

Product overview incl. datasheet link

OPN	SP Number	Package
ESD178B1W0201E6327XTSA1	SP005854363	SG-WLL-2

ESD179-B1-W0201 ESD protection device

Very low insertion loss bi-directional ESD protection device, 1 V, 0.15 pF, 0201.

ESD protection device with a bi-directional I/V characteristic and excellent clamping performance, extremely low capacitance and insertion loss.

Features

- Low insertion loss
- Low clamping
- Bi-directional protection device
- Small package

Benefits

- Improved system reliability
- Absolute minimum board space
- Best protection allows engineers to focus on higher value portions of their designs

Competitive advantage

- Low insertion loss for high-speed data lines

Target applications

- USB4, USB 3.x Gen 1/Gen 2
- Thunderbolt 3, Thunderbolt 4
- User interface
- General I/O
- Small form factor applications (wearables)

Product collaterals / Online support

Product page

Block diagram

Product overview incl. datasheet link

OPN	SP Number	Package
ESD179B1W0201E6327XTSA1	SP005958656	SG-WLL-2

ESD188-B1-W0201 ESD protection device

Very low insertion loss bi-directional ESD protection device, 1 V, 0.06 pF, 0201.

ESD protection device with a bi-directional I/V characteristic and excellent clamping performance, extremely low capacitance and insertion loss.

Features

- Low insertion loss
- Low clamping
- Bi-directional protection device
- Small package

Benefits

- Improved system reliability
- Absolute minimum board space
- Best protection allows engineers to focus on higher value portions of their designs

Competitive advantage

- Low insertion loss for high-speed data lines

Target applications

- USB4, USB 3.x Gen 1/Gen 2
- Thunderbolt 3, Thunderbolt 4
- User interface
- General I/O
- Small form factor applications (wearables)

Product collaterals / Online support

Product page

Block diagram

Product overview incl. datasheet link

OPN	SP Number	Package
ESD188B1W0201E6327XTSA1	SP006040531	SG-WLL-2

EconoPACK™ 3 TRENCHSTOP™ IGBT 1200 V H7 for ESS

Two new EconoPACK™ 3B modules with 1200 V, 500 A in 3-level NPC1 topology.

One featuring TRENCHSTOP™ IGBT7 with Integrated NTC, the other SiC diode and TRENCHSTOP™ IGBT7 with Integrated NTC.

Features

- Efficient 3-level NPC1 topology with 4 fast switches
- High power density in Econo3B package with baseplate enables higher output power to > 200kW
- 1200 V fast IGBT of latest technology
- SiC diodes to acheive higher efficiency of > 98,x%

Benefits

- 3.2 kV AC 1 minute insulation
- Qualified for industrial applications
- Low switching losses
- High power density in EconoPACK™ 3B package with baseplate
- Outstanding module efficiency which enables system cost advantages

Competitive advantage

- Compact design
- High robustness
- High efficiency with SiC technology
- Overload capabilities up to 175°C

Target applications

- Solar applications
- Three-level applications
- Energy storage systems (ESS)

Product collaterals / Online support

Product page: F3L500R12N3H7B66BPSA1

Product page: F3L500R12N3H7FB66BPSA1

Product overview incl. datasheet link

OPN	SP Number	Package
F3L500R12N3H7B66BPSA1	SP006033510	AG-ECONO3B-711
F3L500R12N3H7FB66BPSA1	SP006058835	AG-ECONO3B-7011

EasyPACK™ 2B TRENCHSTOP™ IGBT5 650 V H5 – HVAC, heat pump

EasyPACK™ 2B 650 V, 35 A Vienna rectifier IGBT module with TRENCHSTOP™ 5 H5 and NTC, available with Solder or PressFIT pin for drives and heat pump application.

Features

- Vienna rectifier topology
- Low harmonics enabled with active PFC
- Available in PressFIT and solder pin
- High speed H5 technology for PFC stage

Benefits

- Best cost-performance ratio which leads to reduced system costs
- Active PFC reduces inductor size as compared to passive PFC solution
- Enabling high frequency operation and improvement for reduced cooling requirements

Competitive advantage

- Available in press-fit and solder pin versions
- Reduced system costs
- Easy to design products

Target applications

- Drives
- Heat pump
- Commercial HVAC

Product collaterals / Online support

Product page: FS3L35R07W2H5C40BPSA1

Product page: FS3L35R07W2H5C56BPSA1

Product overview incl. datasheet link

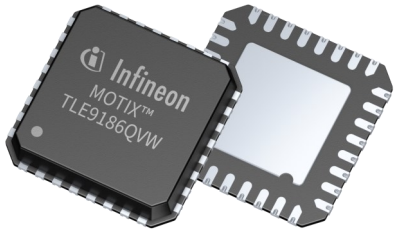
OPN	SP Number	Package
FS3L35R07W2H5C40BPSA1	SP005592396	AG-EASY2B-7011
FS3L35R07W2H5C56BPSA1	SP005926146	AG-EASY2B-7011

MOTIX™ TLE9186QVW gate driver IC for BLDC motors

TLE9186QVW is a 3-phase driver with 60 nC gate charge per channel and features one integrated current sense amplifier (CSA).

It is compliant with ISO 26262 (ASIL B), is AEC Q100 (grade 0) qualified and designed in a tiny VQFN-32 (5x5 mm) pin package reducing system PCB space and costs significantly.

Designed for BLDC motors in body applications, the MOTIX™ TLE9186QVW is perfectly suited for thermal management applications, including electric oil pumps, water pumps, cooling fans, and integrated thermal management systems, and other applications such as seat control, sunroof and door control modules.



Features

- Drives 6 MOSFETs each with QGtot = 60 nC at 20 kHz
- Functional supply voltage range of 8 V to 29 V (extended down to 4.5 V)
- SPI configurability
- Integrated current sense amplifier
- VQFN-32 package (5x5 mm)

Benefits

- AEC Q100 (grade 0) qualified
- ISO 26262 FuSa ASIL-B compliant
- Low system costs due to reduced external components
- Current controlled output staged to control slew rate of MOSFET

Competitive advantage

- Functional safety: ISO 26262 ASIL-B compliant
- AEC Q100 grade 0 qualified providing junction temperature of -40ºC - 175ºC
- VQFN-32 to reduce external components and save costs and PCB space
- Configurable gate current sequencer to enhance EMC
- Comprehensive monitoring and diagnostic functions

Target applications

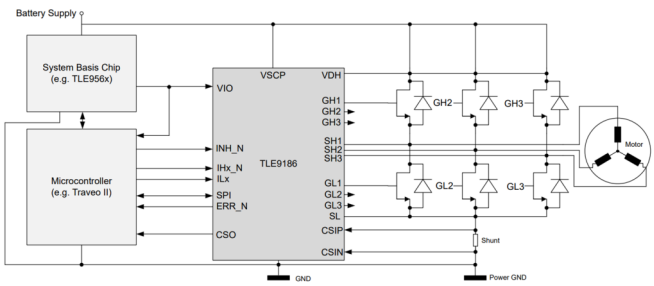
- ITMS
- Water and oil pumps
- Cooling fans
- Seat control
- Sunroof

Product collaterals / Online support

Product page: TLE9186QVWXUMA1

Board page: EVALTLE9186QVWTOBO1

Block diagram



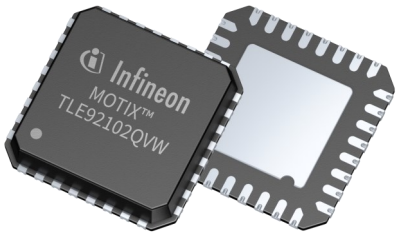
Product overview incl. datasheet link

OPN	SP Number	Package
TLE9186QVWXUMA1	SP005916231	PG-VQFN-32
EVALTLE9186QVWTOBO1	SP006125822	-

MOTIX™ TLE92102QVW gate driver IC for BDC motors

The TLE92102 is an advanced gate driver, designed in a small VQFN-32 (5x5 mm^2) package, with SPI interface dedicated to control up to four N-channel MOSFETs. It includes two half-bridges for DC motor control, one integrated current sense amplifier (CSA) and is compliant to ISO 26262 (ASIL B).

MOTIX™ TLE92102 is ideal for 12 V up to ASIL B rated safety motor drive applications such as seat control, steering column adjustment, central door lock or body control module.



Features

- Drives 4 MOSFETs up to QGtot = 85 nC at 20 kHz
- Current controlled output stages and PWM input
- Supply voltage range of 7 V to 36 V
- 0...100% duty cycle adjustable without restrictions
- 5 MHz SPI for configuration and diagnostics
- Current sense CSA with 1.5µs settle time and ±1% accuracy

Benefits

- ISO26262 FuSa: ASIL B
- Extended temperature range AEC Q100 (grade 0)
- Low system cost due to reduced external components and pin-out
- Current controlled output stages to control slew rate of MOSFET to avoid EMC problems

Competitive advantage

- Optimized system costs and PCB space
- Highest efficiency and power density
- High system reliability, availability, security and robustness

Target applications

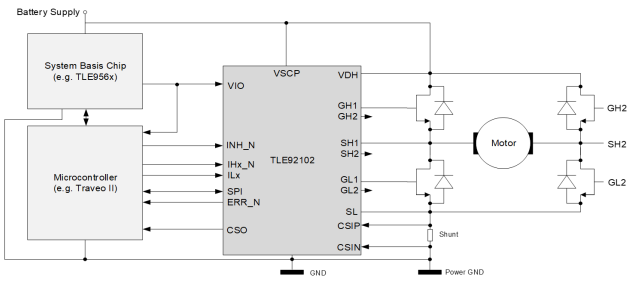
- Power seat
- Sunroof and window lift
- Central door lock
- Fans
- Body Control Module

Product collaterals / Online support

Product page: TLE92102QVWXUMA1

Board page: EVALKITTLE92102QVWTOBO1

Block diagram

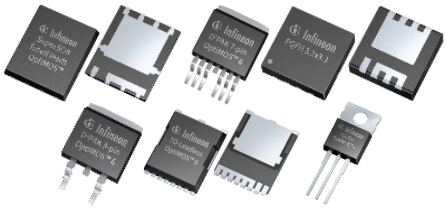


Product overview incl. datasheet link

OPN	SP Number	Package
TLE92102QVWXUMA1	SP006079528	PG-VQFN-32
EVALKITTLE92102QVWTOBO1	SP006156534	-

OptiMOS™ 6 power MOSFETs in 80 V

OptiMOS™ 6 power MOSFETs in 80 V sets new performance benchmarks with > 30% reduced $R_{DS(on)}$ and ~40% improved FOMs compared to OptiMOS™ 5 for lower conduction and switching losses. Optimized for high switching frequencies, it offers flexibility with the industry-standard SuperSO8 package and multiple other package options. Ideal for compact, high-efficiency designs in AI Server, Telecom, BMS, and Solar applications.



Features

- > 30% lower $R_{DS(on)}$ compared to OptiMOS™ 5
- > 42% improved FOM
- Multiple industry-standard packages (e.g., SuperSO8, PQFN 3.3x3.3, D2PAK, TO-220, TO Leadless)

Benefits

- Lowest conduction losses
- Enhanced thermal management
- Compact and efficient designs
- Increased power density

Competitive advantage

- Low switching losses, supporting high switching frequency
- Industry's best $R_{DS(on)}$ leading to lowest conduction losses
- Highest power density and ease of paralleling
- High efficiency through improved FOM and thermal behavior

Target applications

- Server
- Telecom
- BMS
- Solar

Product collaterals / Online support

Product family page

Product overview incl. datasheet link

OPN	SP Number	Package
ISZ053N08NM6ATMA1	SP005410924	PG-TSDSON-8
ISZ157N08NM6ATMA1	SP005339526	PG-TSDSON-8
ISC014N08NM6ATMA1	SP005926698	PG-TSON-8
ISC018N08NM6ATMA1	SP005752496	PG-TDSON-8
ISC031N08NM6ATMA1	SP005728366	PG-TDSON-8
ISC056N08NM6ATMA1	SP005861639	PG-TDSON-8
ISC088N08NM6ATMA1	SP005410920	PG-TDSON-8
ISC151N08NM6ATMA1	SP005410916	PG-TDSON-8
ISC018N08NM6SCATMA1	SP006055827	PG-WSON-8
ISC031N08NM6SCATMA1	SP006055860	PG-WSON-8
IQE036N08NM6CGATMA1	SP005731475	PG-TTFN-9
IQE036N08NM6ATMA1	SP005731465	PG-TSON-8
IQE036N08NM6SCATMA1	SP005731470	PG-WHSON-8
IQE036N08NM6CGSCATMA1	SP005731480	PG-WHTFN-9
IPB014N08NM6ATMA1	SP005339476	PG-TO263-3
IPF011N08NM6ATMA1	SP005410952	PG-TO263-7
IPP014N08NM6AKSA1	SP005339468	PG-TO220-3
IPT009N08NM6ATMA1	SP005410948	PG-HSOF-8

TRENCHSTOP™ IGBT7 1200 V S7 D2PAK

1200 V TRENCHSTOP ™ IGBT7 S7 portfolio is the optimal choice for next-generation auxiliary drives, HV heaters, and 800 V on-board chargers, our solution delivers:

Smart simplicity – streamlined gate driver design for lower cost and faster integration.
Cool confidence – superior thermal performance minimizes cooling needs.
Effortless assembly – high creepage distance reduces complexity and system cost.
Tailored power – available in 15 A and 25 A options to fit your exact requirements.

Empower your system with performance, efficiency, and reliability – all in one solution.

Features

- Low saturation voltage VCE(sat) = 2.0 V at T_{vj} = 175 °C
- Wide range of dv/dt controllability
- 4 µsec short circuit robustness and humidity robustness
- Single IGBT
- Higher pulse current 3xInom capability
- Very good performance at low - mid switching frequency range (8-16 kHz)
- Higher power density
- Automotive qualification

Benefits

- The best-in-class MPT technology of IGBT7 S7 allows reduction of both Vce(sat) by ~ 10% and total switching losses up to 30% lower than previous generations

Competitive advantage

- Simple and lower cost gate driver circuit design
- Improved thermal performance and reduced cooling efforts
- Easier assembly and reduced system cost through high creepage distance
- 15 A and 25 A versions to address exact customer requirements

Target applications

- High voltage auxiliary drive applications
- HV heater
- 800 V OBC

Product collaterals / Online support

Product page: AIGBG15N120S7ATMA1

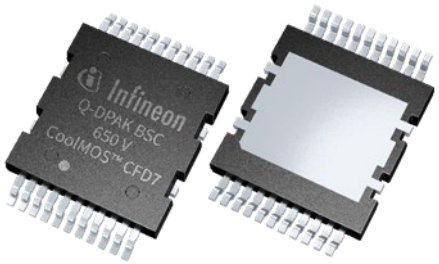
Product page: AIGBG25N120S7ATMA1

Product overview incl. datasheet link

OPN	SP Number	Package
AIGBG15N120S7ATMA1	SP006032386	PG-TO263-7
AIGBG25N120S7ATMA1	SP006032391	PG-TO263-7

CoolMOS™ CFD7 SJ power device 650 V

The 650 V CoolMOS™ CFD7 is Infineon's latest high voltage superjunction MOSFET technology with integrated fast body diode, completing the CoolMOS™ 7 series. CoolMOS™ CFD7 comes with reduced gate charge (Q_G), improved turn-off behavior and a reverse recovery charge (Q_{RR}) of up to 69% lower compared to the competition, as well as the lowest reverse recovery time (t_{rr}) in the market. The bottom-side cooled package minimizes conduction losses and enables standardized cooling and mounting of the device.



Features

- Ultra-fast body diode
- 650 V break down voltage
- Best-in-class $R_{DS(on)}$
- Reduced switching losses
- Low $R_{DS(on)}$ dependency over temperature

Benefits

- Excellent hard commutation ruggedness
- Extra safety margin for designs with increased bus voltage
- Enabling increased power density solutions
- Outstanding light load efficiency in industrial SMPS application

Competitive advantage

- Better price performance compared to alternative offerings in the market
- Fastest switching for elevated switching frequencies to enable increased converter power density

Target applications

- Optimized for phase-shift full-bridge (ZVS)
- LLC applications – server
- Telecom
- EV charging
- Solar

Product collaterals / Online support

Product page

Product overview incl. datasheet link

OPN	SP Number	Package
IPQC65R040CFD7XTMA1	SP005568026	PG-HDSOP-22
IPQC65R017CFD7XTMA1	SP005568024	PG-HDSOP-22

CoolSiC™ MOSFET discrete 1200 V G2 7 mΩ in TO-247 4pin with high creepage package

The CoolSiC™ MOSFET discrete 1200 V G2 7 mΩ in a TO-247 4pin with high creepage package builds on the strengths of Generation 1 technology with significant improvement that provides an advanced solution for more cost-optimized, efficient, compact, easy-to-design and reliable system. It enhanced better performance in both hard-switching operation and soft-switching topologies for all common combinations of AC-DC, DC-DC, and DC-AC stages.

Features

- $R_{DS(on)}$ = 7.5 mΩ at V_{GS} = 18 V, T_{vj} = 25°C
- Very low switching losses
- Wider max. V_{GS} range from -10 V to +25 V
- Overload operation up to T_{vj} = 200°C
- Benchmark gate threshold voltage, $V_{GS(th)}$ = 4.2 V
- Robust against parasitic turn on, 0 V turn-off gate voltage can be applied
- Robust body diode for hard commutation

Benefits

- Better energy efficiency
- Cooling optimization
- Higher power density
- New robustness features
- Highly reliable
- Easy paralleling

Competitive advantage

- Enhanced performance: lower switching losses with higher efficiency
- .XT interconnection technology: better thermal resistance with lower MOSFET temperature
- Best-in-class $R_{DS(on)}$ offered in the market
- Unique robustness features

Target applications

- General purpose drives (GPD)
- Online UPS / Industrial UPS

Product collaterals / Online support

Product page

Product overview incl. datasheet link

OPN	SP Number	Package
IMZC120R007M2HXKSA1	SP006031756	PG-TO247-4

XENSIV™ – KP497 Smart Barometric Pressure Sensor

KP497 is an advanced low power barometric air pressure sensor. Besides a pressure sensor, it also provides a one-axis acceleration sensor, a temperature sensor, and a voltage sensor. KP497 can be operated as a normal digital sensor via the I2C or SPI interface. Additionally, KP497 features a multi-phase low power autonomous state in which the sensor regularly performs measurements and evaluates pre-defined thresholds. In the autonomous state, KP497 can trigger a wake-up when a user defined threshold is exceeded. The selection of the measurements as well as their intervals and thresholds for each phase can be configured independently. These configurations are stored in the internal non-volatile memory, are retained even when the power supply is cut, and can be changed in the field via the serial interface.

Features

- Autonomous mode feature for event detection and host wake-up
- Pressure range for thermal runaway detection: 20–250 kPa
- Integrated pressure +1-axis acceleration sensor
- ISO 26262-compliant (ASIL A)
- 3 kB flash memory available for storage of customer specific data, e.g., battery passport relevant data
- High accuracy pressure sensing
- Interfaces: I2C, 3-wire SPI
- Operating ambient temperature range -40 … +105°C

Benefits

- Advanced and flexible autonomous mode features further adjustable by customer software allowing maximum battery power savings while parking
- Shock detection for battery damage estimation, driving vibrations
- Sensor settings/algorithm parameter adjustable in field Over the Air (OTA) updates possible
- Encrypted communication possible via customer application code
- Ultralow power consumption with dedicated power-down mode for energy saving
- Reduced BOM costs

Competitive advantage

- Autonomous mode features; highly flexible building block architecture with up to 32 configurable configuration sets that can use following functions separate or in combination for pressure and acceleration sensor:
  - Absolute threshold
  - Relative threshold
  - Gradient threshold (with linear fitting)
  - All with possible upper and lower threshold, that can cause specific actions (wake up or transition to other configuration)
- Autonomous mode sampling times: can be freely chosen from 0 - 733.184 s in 1ms steps
- Autonomous mode possible alarm thresholds:
  - Can be freely chosen from -2048 to 2047.9375 kPa in 1/16 kPa steps
  - For gradients: Settings are per measurement interval, e.g. for a measurement interval of 1s step size is 1/16k Pa/s, and for 100 ms step size is 10/16 kPa
- Memory feature for customer data: 3kB non-volatile memory for storing customer data

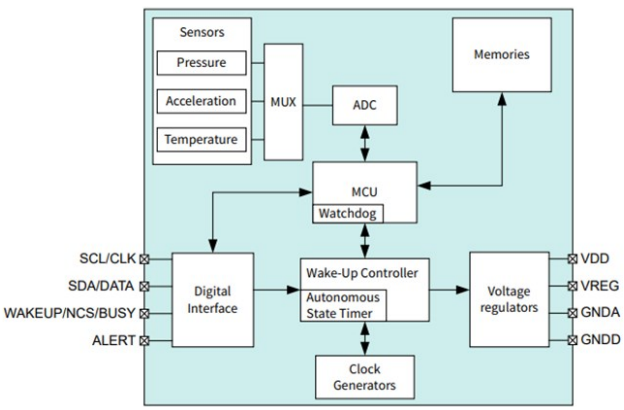
Target applications

- Thermal runaway detection in battery management systems (BMS) for xEVs
- Automotive battery management system (BMS) - 12 V to 24 V
- Automotive battery management system (BMS) - 48 V
- Automotive battery management system (BMS) - high-voltage

Product collaterals / Online support

Product page

Block diagram



Product overview incl. datasheet link

OPN	SP Number	Package
KP497QXTMA1	SP006004123	PG-DSOSP-14

REF_3K3W_3LFC_PSU 3.3 kW high-frequency and high-density PSU

REF_3K3W_3LFC_PSU is a 3.3 kW high-frequency and high-density PSU for server telecom applications. The front-end AC-DC converter is a 3-level flying capacitor (3LFC) implemented with 400 V CoolSiC™ for power factor correction, while the high-frequency (500 kHz) DC-DC converter to provide isolation and regulate output voltage is a GaN LLC half-bridge, with full-bridge rectification. The PSU includes a baby-boost stage to hold-up time requirements.

Features

- 97.6% peak efficiency at 98 W/in³
- 3-level flying capacitor PFC
- High frequency GaN LLC (500 kHz)
- Fully integrated transformer structure

Benefits

- System solution using GaN, SiC and Si
- OCP efficiency specifications including high power density
- Flying capacity charge solution at start-up
- S3-level driving supply
- Hold-up time extension circuit

Target applications

- Telecom
- Data centers

Product collaterals / Online support

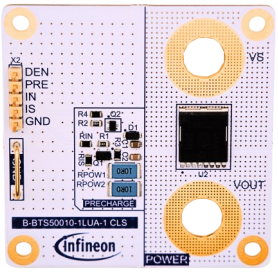
Product page

Product overview incl. application notes link

OPN	SP Number
REF3K3W3LFCPSUTOBO1	SP006171155

BBTS500101LUA1TOBO1 enabling capacitive load charging with the Power PROFET™ + family

The Power PROFET™ + family has been designed to drive high load currents in DC mode. This evaluation board enables capacitive load switching evaluation with the Power PROFET™ + family for 12 V, 24 V and 48 V applications.. The board by default is equipped with BTS50010-1LUA on board – suitable for 12 V applications. The circuitry can be used for 12 V, 24 V and 48 V applications by replacing the high-side switch with a Power PROFET™ + device e.g. BTH50060-1LUA that has the correct voltage range for 24 and 48 V applications.



Features

- Designed to drive high current loads
- Capacitive load switching capability
- Output voltage up to 60 V

Benefits

- Pin to pin compatible for 12 / 24 and 48 V devices
- Designed to replace relays and fuses
- Easy evaluation of capacitive load switching for Power PROFET™ +

Competitive advantage

- Capable to handle capacitive loads
- Lowest $R_{DS(on)}$ for highest efficiency
- Reliable diagnosis at system level
- Easy alternative to gate driver IC solution

Target applications

- Body Control Modules (BCM)
- Automotive power distribution
- Zone control unit
- Automotive BMS
- Relay and fuse replacement

Product collaterals / Online support

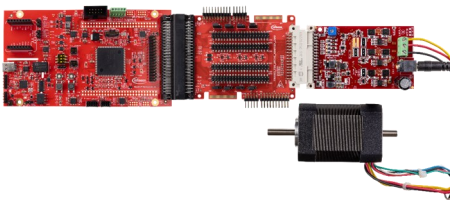
Product page

Product overview incl. user guide link

OPN	SP Number	Package
BBTS500101LUA1TOBO1	SP006183944	LG-MADK-1

TRAVEO ™ T2G CYT4BF Complete System Motor Control Kit

This complete system motor control kit is designed to demonstrate the advanced motor control capabilities of the TRAVEO™ CYT4BF microcontroller, providing a complete out-of-the-box experience. Featuring a motor, power board, drive card and power supply, allowing you to focus on developing your application without worrying about component sourcing. Dedicated code examples enable you to rapidly prototype and test your designs using ModusToolbox™.



Features

- TRAVEO™ T2G CYT4BF8 microcontroller
- 3 phase motor control
- Isolated single power supply
- Nanotec motor (DB42M series)
- Multiple feedback sensors
- Adaptor board

Benefits

- Out-of-the-box experience
- “Real life" motor control use case
- Ease of use with less complexity
- Multi-connectivity enablement
- Code examples

Competitive advantage

- Motor suite solution for software and tool

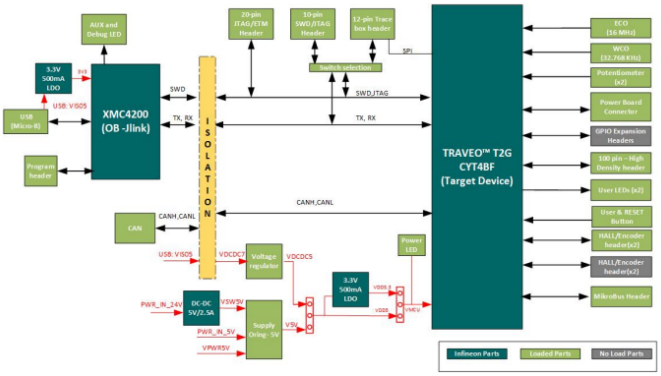
Target applications

- Motor applications

Product collaterals / Online support

Board page

Block diagram



Product overview incl. user guide link

OPN	SP Number	Package
KITTRAVEOT2GBHMC1TOBO1	SP006162755	LG-MADK-1-1