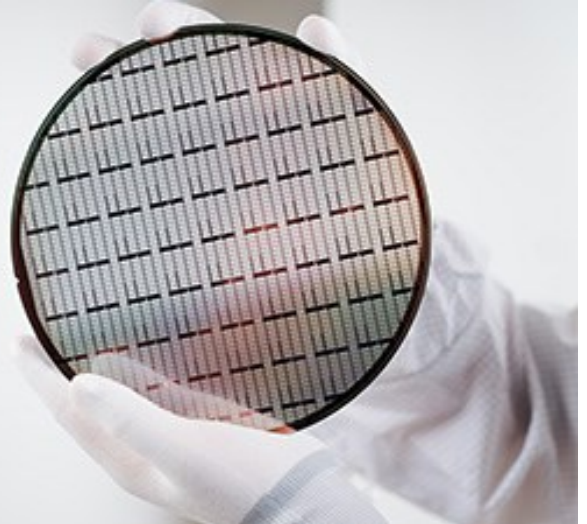


New Product Introduction



New Product Introduction

February 2025

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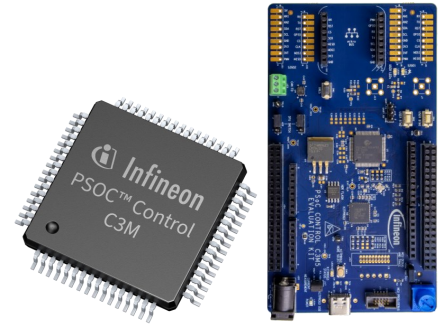
[XENSIV™ – Spindle2Go](#)

[XENSIV™ – TLE493D-P3xx MS2GO 3D magnetic sensor 2GO kit](#)

[InfineonSpice Offline Simulation tool](#)

PSOC™ Control C3 microcontroller for Motor and Power Systems

PSOC™ Control family microcontrollers from Infineon are the next generation of MCU's developed specifically for motor control and power conversion applications. Using real-time control with Arm® Cortex®-M33 this high-performance microcontroller family is targeted at HVAC, home appliances, power tools, industrial automation, server and telecom switch mode power supplies (SMPS), solar inverter, and light electric vehicles. Advance features of the PSOC™ Control microcontroller include high-performance ADC and integrated CORDIC accelerator. With true synchronous “idle” sampling of up to 16 analog signals from the single core ADC, up to 25% faster results is possible without any sampling jitter. The CORDIC accelerator can offload the MCU and increase computational power for real-time critical tasks such as field-oriented motor control algorithms. This unique combination of power and performance will bring the next generation of industrial solutions to market today.



Features

- > 32-bit MCU subsystems
 - > Up to 180 MHz Arm® Cortex®-M33 with DSP and FPU
 - > Up to 256 kB read-while-write flash with ECC
 - > 64 kB SRAM with ECC
 - > 16 kB I-cache
 - > 6 power modes including deep sleep and hibernate
- > High-performance analog
 - > 12-bit, up to 12-MSPS SAR ADC
 - > 18 analog channels
 - > 5 comparators with built-in 10-bit DAC and slope generator
- > Real-time control peripherals
 - > 16 x 16-bit and 4 x 32-bit TCPWMs
 - > 4-channel HRPWM (C3 main)
 - > CORDIC math coprocessor
- > Up to PSA L2 device security
 - > NIST P256 and TRNG
 - > Cryptography
 - > Secure boot
 - > Secure firmware update
 - > Processing isolation

Benefits

- > Fast analog and digital peripherals ready for wide bandgap systems
- > HW accelerators (CORDIC, DSP, FPU) for boosted task execution
- > Motor and power suite with multi-functional GUI, dedicated tools, advanced libraries, etc.
- > Reduced power consumption for battery operated applications

Target applications

- > Power / gardening tools
- > Lawn mower robots, home robots
- > Residential aircon ODU, Commercial aircons
- > Large and medium home appliance drives
- > PV inverters
- > LEV
- > EV charging
- > General purpose drives, Servo drives
- > LED lighting
- > Telecom, server and workstation PSUs

Competitive advantage

- > Idle-Sampling ADC with 16 synchronous channels up to 12 MSPS, up to 12x built-in gain without the need of external OpAmp
- > HW acceleration of operations with CORDIC accelerator and autonomous HPPASS SAR ADC allows to off-load the CPU
- > TCPWM and low-latency trigger mux with precise control of dead time, duty and period of PWM allows support 2 motors + PFC
- > Versatile timers with 80ps high-resolution option for finest control
- > State-of-the-art security, with PSA L2 certification

Product collaterals / Online support

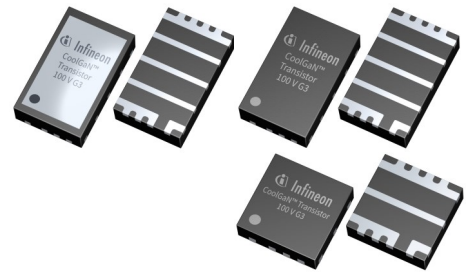
[Product family page](#)

[Board page](#)

Product overview incl. datasheet link

OPN	SP Number	Package
PSC3M5FDS2ACQ1XQLA1	SP005962247	PG-TQFP-64
KITPSC3M5EVK	SP006051082	Kit

CoolGaN™ Transistors 100 V G3



The CoolGaN™ Transistor 100 V G3 devices are normally-off e-mode devices, enabling high power density designs.

Available in PQFN 3x3 and PQFN 3x5 packages, this family is designed for reliable performance in demanding high-voltage and high-current applications.

Features

- > 100 V e-mode power transistor
- > No reverse recovery charge
- > Reverse conduction capability
- > Low gate charge, low output charge
- > Qualified according to JEDEC

Benefits

- > Best-in-class power density
- > Excellent reliability
- > Improved thermal management
- > Enabling smaller and lighter designs
- > Lowering BOM cost

Target applications

- > Audio amplifier solutions
- > Low-power BDC / BLDC motor drives up to 72 V
- > Photovoltaic
- > Telecommunication infrastructure

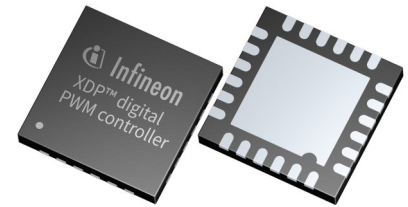
Product collaterals / Online support

[Product family page](#)

Product overview incl. datasheet link

OPN	SP Number	Package
IGC033S10S1XTMA1	SP005751571	PG-TSON-6
IGC033S101XTMA1	SP005751570	PG-VSON-6
IGB110S101XTMA1	SP005751574	PG-VSON-4

XDP™ digital PWM controller



This latest generation of digital controller product family offers a range of advanced features, including support for close-loop LLC topology, enhanced feed-forward capabilities, and non-linear fast transient response. Additionally, it provides light load power management and bi-directional configuration options. The high-performance AFE, state-machine-based digital control loop, and Cortex®-M0 processor integrated in the 4x4 mm 24-pin VQFN package enables the design of high-quality power supplies with low latency and flexibility.

Features

- > Industry's smallest 4x4 mm VQFN package
- > 100 MHz, 32bit Cortex®-M0 processor
- > Feed-forward control
- > PWM and PFM mode support
- > Flux balancing
- > 1 V-sense ADC and 2 I-sense ADCs
- > Burst mode, diode-emu and phase shedding
- > Fast transient and non-linear PID response
- > Firmware-based system configuration
- > Active current sharing
- > I²C / PMBus 1.4, UART and SPI interface
- > Low power consumption sleep mode

Target applications

- > DC-DC brick modules
- > AI servers
- > Telecom infrastructure
- > 48 V Intermediate bus converter IBC

Benefits

- > Easy product differentiation
- > User-specific customization
- > Fast time to market
- > Excellent dynamic transient performance
- > Reduced BOM size and low system cost
- > Sophisticated fault handling
- > Housekeeping with configurable GPIOs

Competitive advantage

- > Close-loop LLC topology support
- > Enhanced feed-forward
- > Non-linear fast transient
- > Light load power management
- > Bi-directional configuration

Product collaterals / Online support

[Product family page](#)

Product overview incl. datasheet link

OPN	SP Number	Package
XDPP1140100BXUMA1	SP005990502	PG-VQFN-24
XDPP1148100BXUMA1	SP005990504	PG-VQFN-24

CoolSET™ G5 FF PLUS (DIP-7)



The CoolSET™ G5 FF PLUS is a 5th generation fixed frequency plus integrated power IC, optimized for use in off-line switch mode power supplies in a cascode configuration. This innovative solution combines a controller chip and a 700 V, 800 V, or 950 V CoolMOS™ chip in a single package, enabling fast startup and improved performance. As a result, it is the perfect fit for major home appliances and server applications.

Features

- > Fast startup with cascode configuration
- > Lower EMI and better efficiency with frequency reduction, soft gate driving, and frequency jitter operation
- > Selectable entry and exit standby power with ultra-low power consumption and small output voltage ripple
- > Wide operating range of IC power supply (10.0 ~ 32.0 V) and lower power consumption
- > Numerous protection functions for reliable operation in failure situations

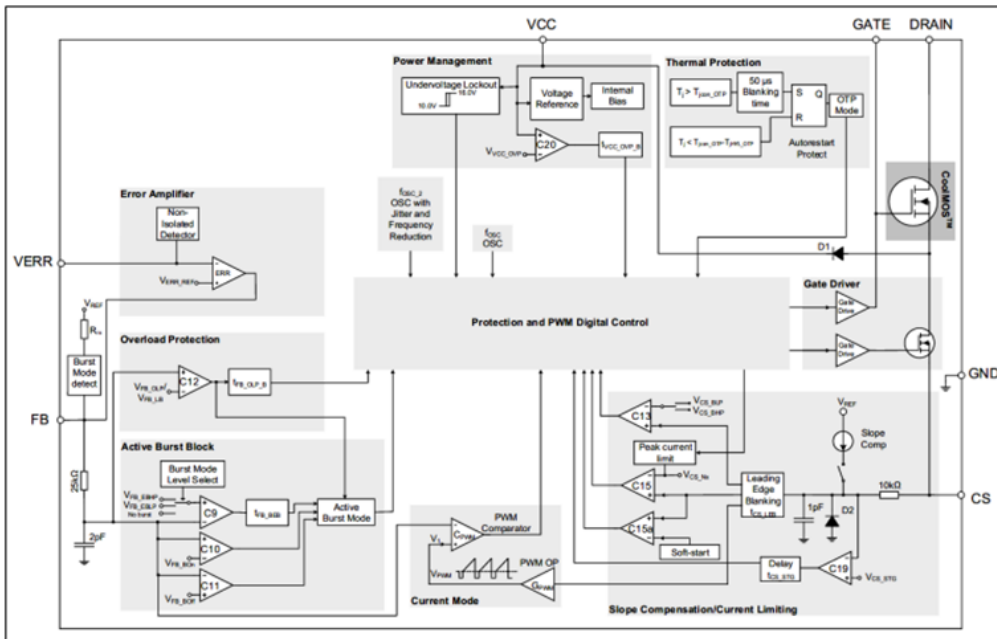
Target applications

- > Home appliances
- > AC-DC power supplies for servers

Product collaterals / Online support

[Product family page](#)

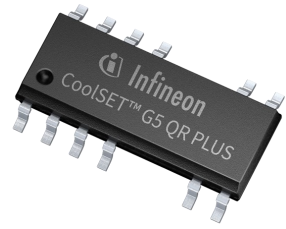
Block diagram



Product overview incl. datasheet link

OPN	SP Number	Package
ICE5AR0680BZS1XKLA1	SP005877407	PG-DIP-7
ICE5AR3995BZ1XKLA1	SP005877434	PG-DIP-7
ICE5AR4770BZS1XKLA1	SP005877138	PG-DIP-7
ICE5AR4780BZS1XKLA1	SP005877142	PG-DIP-7
ICE5BR2280BZ1XKLA1	SP005877419	PG-DIP-7
ICE5BR3995BZ1XKLA1	SP005877452	PG-DIP-7
ICE5BR4780BZ1XKLA1	SP005877411	PG-DIP-7

CoolSET™ G5 QR PLUS (DSO-12)



The quasi-resonant flyback controller with a valley-switching scheme and an 800 V CoolMOS™ P7 super junction MOSFET in a single DSO-12 package offers a high level of integration that provides a comprehensive suite of protection features, frequency jittering to minimize EMI, and frequency reduction in tandem with the decrease of load to improve overall efficiency. On top, the active burst mode improves light-load/standby performance.

Features

- > Integrated 800 V CoolMOS™
- > Avalanche rugged CoolMOS™
- > Load-dependent frequency reduction
- > Start-up with Cascode configuration
- > Increased pin voltage rating
- > Comprehensive protections w/o latching
- > Selectable burst mode

Target applications

- > 48 V power distribution
- > DIN rail power supplies
- > Refrigeration and freezing
- > Commercial HVAC
- > Energy Storage Systems
- > Central inverter solutions
- > Residential air conditioning: Smart (IoT) and efficient cooling
- > Medium voltage (MV) drive
- > Secondary power distribution system
- > Uninterruptible power supplies (UPS)

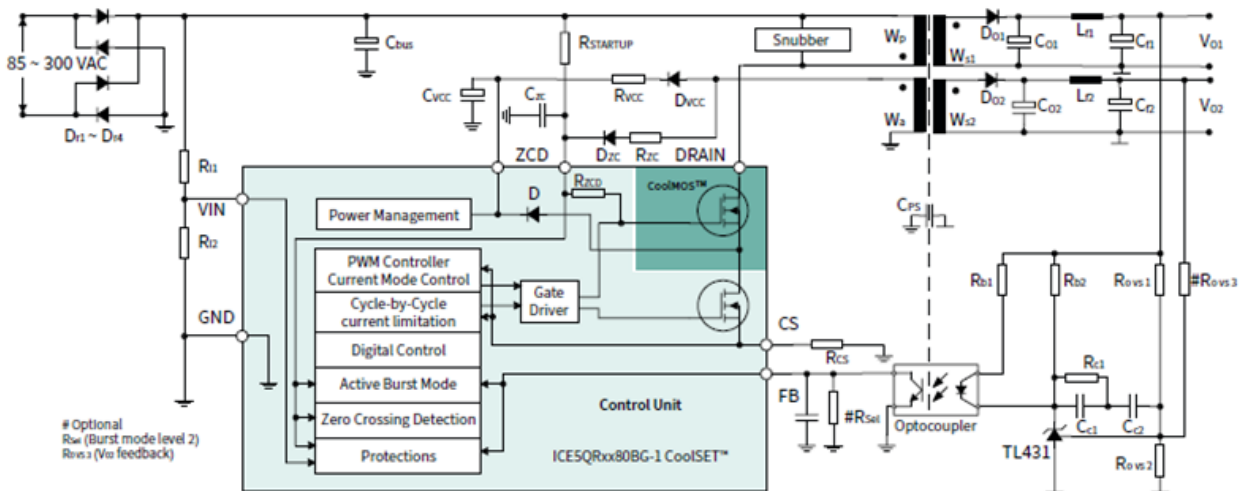
Benefits

- > Ease of system design
- > High reliability
- > Improved overall system efficiency
- > Auto-restart recovery scheme
- > Fast startup time
- > Low EMI
- > Supports isolated/non-isolated topology
- > Low standby power

Product collaterals / Online support

[Product family page](#)

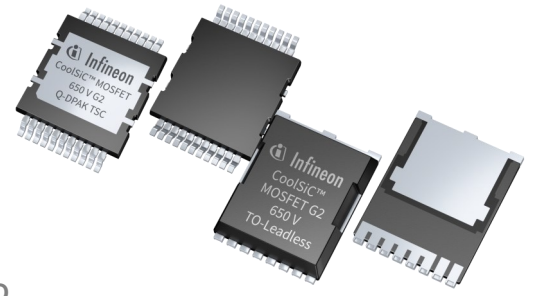
Block diagram



Product overview incl. datasheet link

OPN	SP Number	Package
ICE5QR0680BG1XUMA1	SP005963982	PG-DSO-12
ICE5QR1680BG1XUMA1	SP005963971	PG-DSO-12
ICE5QR2280BG1XUMA1	SP005963988	PG-DSO-12
ICE5QR4780BG1XUMA1	SP005963964	PG-DSO-12

CoolSiC™ MOSFET 650 V Generation 2 in Q-DPAK top-side cooling and TOLL bottom-side cooling package



The CoolSiC™ G2 builds on the strong Generation 1 of trench SiC MOSFETs, offering improved performance, more flexibility and more robustness to secure the system price-performance leap, reaching top levels in terms of efficiency, high frequency switching and reliability in both hard and soft switching topologies. The new package offering of the CoolSiC™ G2 family adds the advantages of top-side cooling (Q-DPAK) and bottom-side cooling (TOLL), combining the thermal capability of the TO devices with the compactness and cheaper assembly of the SMD devices.

Features

- > Excellent figures-of-merit (FOMs)
- > Best in class $R_{DS(on)}$
- > High robustness and overall quality
- > Flexible driving voltage range
- > Support for unipolar driving ($V_{GS,off}=0$)
- > Lower thermal resistance
- > Improved package interconnect with .XT
- > Top- and bottom side cooling
- > TOLL: Pin-to-pin compatible with all 8 x 8 FETs

Benefits

- > Enables BOM savings
- > Maximizes the system performance per \$
- > Highest reliability
- > Enables top efficiency and power density
- > Simplifies assembly and cooling
- > Water cooling "ready"
- > Allows designs without fan or heatsink
- > Lower stray inductances
- > Better gate control

Target applications

- > 1-phase string inverter solutions
- > Energy storage systems
- > EV charging
- > Power conversion
- > Solid-state circuit breaker
- > AI SMPS, Telecom SMPS, Edge SMPS, Server SMPS, TV SMPS
- > Humanoid charging
- > Battery charging
- > LEV
- > eBike charging
- > Drive
- > Residential aircon
- > HVAC
- > Solid state circuit breaker
- > SSR

Product collaterals / Online support

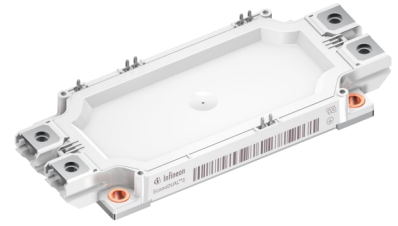
[Product family page](#)

Product overview incl. datasheet link

OPN	SP Number	Package
IMDQ65R007M2HXUMA1	SP006051118	PG-HDSOP-22
IMDQ65R010M2HXUMA1	SP006051117	PG-HDSOP-22
IMDQ65R015M2HXUMA1	SP006051119	PG-HDSOP-22
IMDQ65R020M2HXUMA1	SP006051120	PG-HDSOP-22
IMT65R10M2HXUMA1	SP006051121	PG-HSOF-8
IMT65R15M2HXUMA1	SP006051122	PG-HSOF-8
IMT65R20M2HXUMA1	SP006051123	PG-HSOF-8
IMT65R26M2HXUMA1	SP006051124	PG-HSOF-8
IMT65R33M2HXUMA1	SP006051125	PG-HSOF-8
IMT65R40M2HXUMA1	SP006051126	PG-HSOF-8
IMT65R50M2HXUMA1	SP006051127	PG-HSOF-8
IMT65R60M2HXUMA1	SP006051128	PG-HSOF-8

Half-bridge 1200 V CoolSiC™ MOSFET EconoDUAL™ 3 module

EconoDUAL™ 3 1200V / 1.4 mΩ halfbridge module with CoolSiC™ MOSFET with enhanced generation 1, integrated NTC temperature sensor and PressFIT Contact Technology. Also available with pre-applied Thermal Interface Material (FF1MR12MM1HP_B11) or with Wave structure on the back side of the base plate for direct liquid cooling (FF1MR12MM1HW_B11).



Features

- > Low switching losses
- > Superior gate oxide reliability
- > Higher gate threshold voltage
- > Higher power output
- > Robust integrated body diode
- > High cosmic ray robustness
- > High speed switching module
- > $T_{vj\ op} = 175^{\circ}\text{C}$ overload
- > PressFIT pins
- > Screw power terminals
- > Integrated NTC temperature sensor
- > Isolated baseplate

Target applications

- > Commercial, construction and agricultural vehicles (CAV)
- > Energy storage systems
- > General purpose motor drive - varying frequency and voltage
- > HVAC control module
- > Motor control
- > Uninterruptible power supplies (UPS)
- > EV charging

Benefits

- > High switching frequency
- > Reduced volume and size
- > Reduction of system costs
- > High thermal efficiency

Product collaterals / Online support

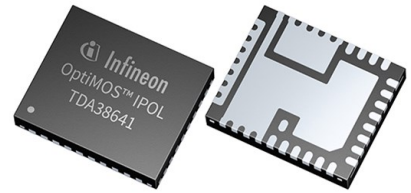
[Product page](#)

Product overview incl. datasheet link

OPN	SP Number	Package
FF1MR12MM1HB11BPSA1	SP006049681	AG-ECONOD-3111

OptiMOS™ IPOL TDA38641-0000

OptiMOS™ IPOL TDA38641-0000 is an easy-to-use, fully integrated, highly efficient 40 A synchronous buck regulator with pin programmability, and SVID. A proprietary fast COT engine enables a fast transient response and reduces the board footprint. TDA38641-0000 offers best-in-class efficiency by using OptiMOS™ FETs, optimized for low-voltage high-current applications. Extensive protection features provide system-level security under fault conditions.



Features

- > Wide input voltage range 3.0 - 17 V
- > Fast COT with no ext compensation
- > Support FCCM and DEM
- > Pin programmable V_{out} , F_{sw}
- > PMBUS interface for reporting
- > 5 mm x 6 mm PQFN
- > Pb-free, ROHS2 compliant with ex. 7a

Benefits

- > Superior transient response
- > Accurate output voltage regulation
- > High efficiency and high power density
- > Fast constant on-time PWM engine

Target applications

- > DC-DC power conversion for telecom infrastructure
- > Edge server solutions

Product collaterals / Online support

[Product page](#)

Product overview incl. datasheet link

OPN	SP Number	Package
TDA386410000AUMA1	SP005551909	PG-IQFN-36

OPTIREG™ PMIC TLF35585

The OPTIREG™ PMIC TLF35585 is a highly efficient Functional Safety PMIC (Power management integrated circuit) for safety-relevant applications. The power supply includes a boost-buck pre-regulator supplying post regulator rails for microcontroller supply, communication supply and a precise voltage reference. In addition, two trackers following the voltage reference are available to supply off-board sensors. The OPTIREG™ PMIC TLF35585 comes with a configurable window watchdog and functional watchdog error pin monitoring and voltage monitoring functions as major supervision functions. For microcontroller interaction a 16-bit SPI, interrupt and reset function are provided. The device has been developed according to ISO 26262 targeting systems up to ASIL D and supports an extended junction temperature range of up to 175°C.



Features

- > Adjustable switching speed of the step-down regulator
- > Grade 0 and ASIL D enabled by default
- > Increased buck converter current capability
- > Lower Quiescent current in STANDBY with Standby-LDO active
- > Microcontroller Programming Support (MPS) control via SPI

Target applications

- > Battery management system
- > Traction inverter
- > Chassis
- > Domain / zone controller
- > Onboard charger

Benefits

- > Flexibility in efficiency and EMC performance optimization
- > Addressing applications requiring $t_j > 150^\circ\text{C}$, extended lifetime and highest degree of FuSa
- > Supporting high end AURIX™ 2G (TC38/39) covering more applications
- > Supporting tighter stand-by currents
- > Easier debugging

Competitive advantage

- > Increased system efficiency
- > Easy to design products
- > Extended lifetime and temperature
- > Reduced system costs
- > Smaller system size

Product collaterals / Online support

[Product family page](#)

Product overview incl. datasheet link

OPN	SP Number	Package
TLF35585QVS01XUMA2	SP006005521	PG-TQFP-48
TLF35585QVS02XUMA2	SP006005530	PG-TQFP-48
TLF35585QUS01XUMA2	SP006005534	PG-VQFP-48
TLF35585QUS02XUMA2	SP006005538	PG-VQFP-48

Power PROFET™ + 24/48 V – BTH50030-1LUA and BTH50015-1LUA – lowest ohmic high-side switches

Introducing the Power PROFET™ + 24/48 V family, single channel smart high-side power switches, embedded in a 8 pin TO-leadless package, providing protective functions and diagnosis. They are especially designed to drive high current loads up to 35 A in a 24 V or 48 V power net in automotive or industrial applications.



Features

- > Lowest ohmic switches for 24 V and 48 V automotive power distribution and industrial applications
- > Integrated protection functions (over-current, over-load, over-temperature, over-power)
- > Integrated diagnostic functions
- > Low stand-by current
- > Compatible to cranking pulses and load dump robustness up to 70 V
- > AEC-Q100 qualification

Benefits

- > PRO-SIL™ ISO 26262-ready for supporting the integrator in evaluation of hardware element acc. to ISO 26262
- > Accurate current sensing
- > Developed to support dependable power supply and distribution
- > Supports long wires
- > Ideal for limited board space
- > Leadless power package

Target applications

- > Suitable for resistive, inductive and capacitive loads
- > Replaces electromechanical relays, fuses and discrete circuits in power distribution and other applications in a 24 or 48 V board net
- > Most suitable for application with high current loads, such as heating system
- > BCM for 24 V commercial vehicles
- > Industrial applications 24 V and 48 V
- > PWM applications with low frequency

Competitive advantage

- > One of the lowest ohmic switch available on the market able to drive high current loads up to 35 A (the BTH50015-1LUA)
- > Integrated solution for driving high current loads for easy design in
- > ISO 26262-ready providing Safety Application Note

Product collaterals / Online support

[Product family page](#)

Product overview incl. datasheet link

OPN	SP Number	Package
BTH500151LUAAUMA1	SP005346648	PG-HSOF-8
BTH500301LUAAUMA1	SP005346650	PG-HSOF-8

StrongIRFET™ 2 30 V in SuperSO8



Unveiling the newest portfolio of StrongIRFET™ 2 products in 30 V, tailored to fit a wide range of applications such as power management (SMPS), adapters, motor drives, battery management, power tools and gardening tools as well as all other consumer applications which are using 30 V MOSFETs. This new portfolio offers excellent robustness and price/performance ratio, providing up to 40% $R_{DS(on)}$ improvement and up to 60% lower FOMQ_g compared to the previous StrongIRFET™ 30 V technology. In addition to the already existing TO-220, DPAK and PQFN 3.3 x 3.3 packages, the portfolio is now being expanded with devices in SuperSO8, enabling an easy design-in and convenient selection and purchasing at distribution partners. A further portfolio extension to D²PAK is planned by the end of Q1 CY 2025.

Features

- > General purpose products
- > Excellent robustness and price / performance ratio
- > Broad availability at distribution partners
- > Standard packages and pin-out
- > Highest manufacturing and supply standards

Benefits

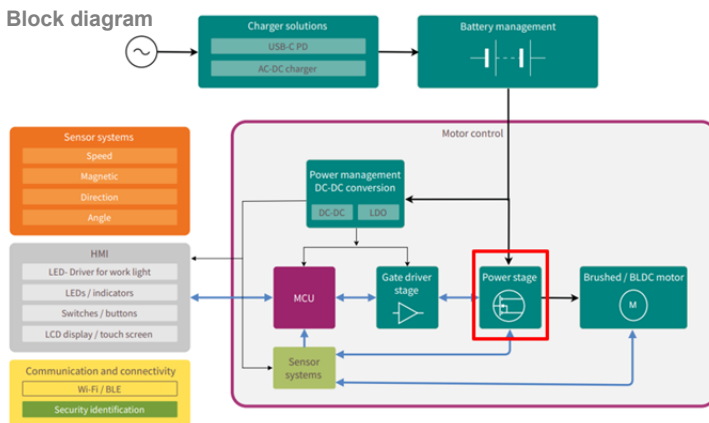
- > Addressing a broad range of applications
- > High quality and competitive price
- > Convenient selection and purchasing
- > Ease of design-in
- > Simplified product services

Target applications

- > Drives
- > Power and gardening tools
- > BMS
- > Adapter
- > Multicopter
- > Industrial SMPS
- > Consumer

Competitive advantage

- > Right-fit products, flexible use
- > High reliability and reduced system costs
- > Multiple sources, short lead time
- > Drop-in replacement for multiple designs
- > Reliable delivery and supply security



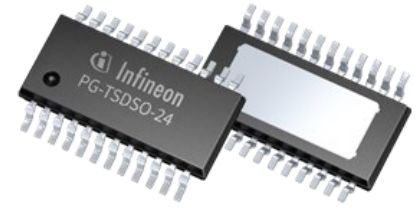
Product collaterals / Online support

[Product family page](#)

Product overview incl. datasheet link

OPN	SP Number	Package
ISC009N03LF2SATMA1	SP005860609	PG-TDSON-8
ISC012N03LF2SATMA1	SP005859623	PG-TDSON-8
ISC015N03LF2SATMA1	SP005918680	PG-TDSON-8
ISC023N03LF2SATMA1	SP005913481	PG-TDSON-8
ISC028N03LF2SATMA1	SP005860600	PG-TDSON-8
ISC033N03LF2SATMA1	SP005859637	PG-TDSON-8
ISC052N03LF2SATMA1	SP005905054	PG-TDSON-8

LITIX™ Power: dual channel multi-topology DC-DC controller TLD6099-2ES



TLD6099-2ES is a dual channel multi-topology DC-DC controller designed for automotive LED applications with built-in protection features to implement a compact LED driver. The output current generated by the two channels are independent and they are regulated by means of a peak current control loop. Each channel of TLD6099-2ES can drive an external NMOS to discharge the output capacitance fast. This feature helps to manage fast load variations, e. g. switching from low beam to high beam or driving ADB with matrix manager.

Features

- > Dual channel device with wide input voltage (up to 58 V) and output voltage range (up to 70 V)
- > Switching frequency range from 100 kHz to 500 kHz and 2.2 MHz
- > EMC optimized device
- > Analog output adjustment (analog dimming)
- > Overvoltage, short to ground, open feedback and overtemperature diagnostic output, LED current accuracy $\pm 3.5\%$
- > NMOS gate driver for adaptive output discharge

Benefits

- > Reduced output current spikes
- > Reduced EMI emissions
- > Protected against short and overvoltage
- > 2.2 MHz option for small size DC-DC

Target applications

- > LED driver for front light module
- > LED driver for animated light functions
- > LED driver for pixelated adaptive driving beam

Competitive advantage

- > Reduced system cost for Adaptive Drive beam (ADB)
- > Easy implementation of high beam (HB) / low beam (LB) solution with one DC-DC only
- > Compact front light system compared to multi-stage architecture (boost followed by bucks)
- > Single device solution for full LED headlamp (CH1 serves HB+LB, CH2 serves Turn indicator and DRL)

Product collaterals / Online support

[Product page](#)

Product overview incl. datasheet link

OPN	SP Number	Package
TLD60992ESXUMA1	SP005852019	PG-TSDSO-24

XENSIV™ – TLI5570-AE35E1-E0001 magnetic current sensor

The XENSIV™ TLI5570-AE35E1-E0001 is a high-precision miniature coreless magnetic sensor for AC and DC measurement. Our revolutionary and robust, highly linear monolithic TMR (tunnel magnetoresistance) technology enables accurate current measurement. With a bandwidth of a more than 1.1 MHz, this sensor provides a non-amplified high-speed differential analog output signal to be directly connected to replacing shunts.



Features

- > Accurate AC and DC current sensing with stable sensitivity and offset over temperature and life-time
- > Contactless, galvanically isolated current measurement up to >1 kA
- > From 1 V and 5 V supply voltage
- > >1.1 MHz bandwidth
- > Ultra-low noise analog out
- > Temperature range -40°C to +125°C
- > Magnetic measurement range ±35 mT

Benefits

- > Cost-efficient TMR current sensor as shunt replacement
- > Isolated current measurement
- > Small design footprint
- > Wide range of applications
- > Highly robust system design
- > Reduced power losses and lowest parasitic inductance

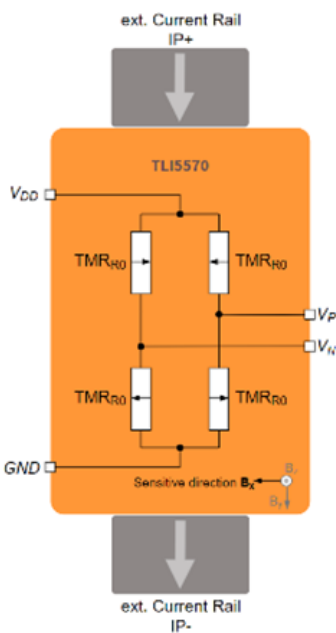
Target applications

- > Industrial and consumer DC-DC
- > Battery powered tools
- > Service robots and drones
- > e-bikes / e-scooters
- > Home appliances and smart home
- > Telecom

Competitive advantage

- > Smallest package for current sensing
- > Best cost-efficient current sensing solution
- > Compatible to established shunt solutions but better performance
- > Enables lower system costs

Block diagram



Product collaterals / Online support

[Product page](#)

Product overview incl. datasheet link

OPN	SP Number	Package
TLI5570RE35E1E0001XTSA1	SP006025316	PG-SOT23-6

XENSIV™ – Spindle2Go

The “Spindle2Go” can be mounted on 3D magnetic sensor Shield2Go. This application combines multiturn (about 3 x 360°) and True-Power-On (TPO) functionality with high accuracy for angle or linear measurement.



Features

- > Accuracy around 20 µm
- > Ring magnet included
- > Ease mounting on 3D shield
- > Magnet, NdFeB 10x7x3, diametral magnetized
- > Recomm. supermagnete R-10-07-03-DN
- > Python code at Github available

Target applications

- > Valve control
- > Smart heating thermostat
- > Door locks
- > Spindle control
- > Linear movement

Benefits

- > High resolution multi-turn
- > True power on availability

Product collaterals / Online support

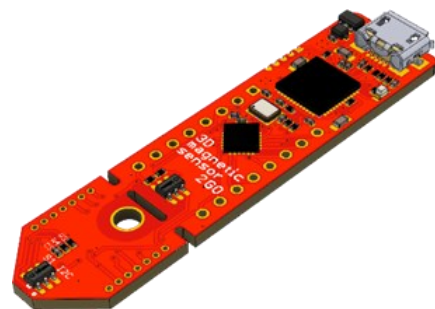
[Board page](#)

Product overview incl. video link

OPN	SP Number
SPINDLE2GOTOBO1	SP005989689

XENSIV™ – TLE493D-P3xx MS2GO 3D magnetic sensor 2GO kit

The Infineon TLE493D-P3xx 3D magnetic sensor 2GO kit is a budget-priced evaluation board equipped with two magnetic sensors of third generation 3D Hall sensors for three dimensional magnetic measurement. The P3B6 version on the top of the PCB offers a I²C interface, while the P3I8 on the bottom of the PCB features a SPI interface. The board also includes an ARM[®] Cortex™-M0 CPU. It has a complete set of on-board devices, incl. an on-board debugger. In addition Infineon is offering so called add-on components which are adapters for the 3D magnetic sensor 2GO kits. These add-ons (e.g. joysticks, rotation knobs, linear slider, drill trigger etc.) comprise a magnet and can be directly mounted onto the 2GO kits. Together with a dedicated GUI it's the perfect tool for fast and easy plug-and-play systems. Build and evaluate your own application and gadget with the 3D magnetic sensor 2GO kit.



Features

- > TLE493D-P3B6 (three dimensional magnetic sensor with I²C interface)
- > TLE493D-P3I8 (three dimensional magnetic sensor with SPI interface)
- > XMC1100 (ARM[®] Cortex™-M0 based)
- > On-board J-Link Lite Debugger (realized with XMC4200 microcontroller)
- > Power over USB (micro USB), ESD and reverse current protection

Target applications

- > Automotive
- > Industrial
- > Consumer
- > High performance

Benefits

- > Plug & play
- > Easy use evaluation GUI
- > Customizable programming enabled
- > All in one 3rd Gen. solution

Product collaterals / Online support

[Board page](#)

Product overview incl. user manual link

OPN	SP Number
TLE493DP3XXMS2GOTOB01	SP006095300

InfiniteonSpice Offline Simulation tool

InfiniteonSpice is a fully functional analog circuit simulator for DC and OP simulation free of charge. This stand-alone, Windows-based tool, is providing the full feature set to design, simulate, and analyze complex analog circuits. Users get direct access to all Infiniteon SPICE product models but as it's created as an open tool, also competitor SPICE product models or SPICE models for passive components can be used without any restrictions in feature-set or performance. In addition, an expanding number of system reference designs for many applications will be available for an easy and convenient start of simulations.



Features

- > Comprehensive circuit simulator to design, simulate and analyze complex analog circuits
- > Windows based Stand-alone tool for customer design IP protection
- > Open software for all kind of SPICE component models
- > Easy to use and intuitive interface and wave form viewer
- > One-stop shop for Infiniteon SPICE product models
- > Virtual reference designs for many applications

Benefits

- > Fast and efficient design-in
- > Improved time-to-market
- > Free of charge tool
- > Easy exchange of information and support in design-in phase
- > One-stop-shop for all Infiniteon SPICE product models

Competitive advantage

- > Expertise: Built on 30 years of Infiniteon's simulation experience
- > High performance, free of charge: provides a powerful and cost-effective simulation solution
- > Comprehensive model library: direct access to 2,000+ Infiniteon SPICE models
- > Compatibility: works with all Infiniteon and third-party SPICE models
- > Open tool: no limitation of feature set or speed while using competitor product models
- > Ease of use: intuitive interface and analysis functions for seamless simulations

Target applications

- > Development of circuit designs
- > For all kind of analog designs
- > For all kind of designs in the power area (e.g. power boards for inverter, DC-DC, OBC, lighting, power distribution, solar, automation, home appliance in the industry, consumer and automotive markets)

Product collaterals / Online support

[Software page](#)