



New Products Introduction

August 2018

950 V CoolMOSTM P7

IPA95R1K2P7XKSA1, IPA95R750P7XKSA1, IPA95R450P7XKSA1, IPD95R2K0P7ATMA1, IPD95R1K2P7ATMA1, IPD95R750P7ATMA1, IPD95R450P7ATMA1, IPU95R3K7P7AKMA1, IPU95R2K0P7AKMA1, IPU95R1K2P7AKMA1, IPU95R750P7AKMA1, IPU95R450P7AKMA1, IPN95R3K7P7ATMA1, IPN95R2K0P7ATMA1, IPN95R1K2P7ATMA1

600 V CoolMOS™ CFD7 - High voltage superjunction MOSFET – portfolio extension

IPW60R040CFD7XKSA1, IPW60R055CFD7XKSA1, IPW60R090CFD7XKSA1, IPP60R090CFD7XKSA1, IPP60R125CFD7XKSA1, IPA60R125CFD7XKSA1, IPW60R125CFD7XKSA1

New 200 V half-bridge driver

IRS2007STRPBF, IRS2007SPBF

SP4T RF Switch with MIPI 2.0

BGS14MA11E6327XTSA1

Digital iGMR sensor for functional safety applications - ASIL C(D) with PWM, SENT and SPC interfaces

TLE5014C16XUMA1, TLE5014P16XUMA1, TLE5014S16XUMA1, TLE5014C16DXUMA1, TLE5014P16DXUMA1, TLE5014S16DXUMA1

Three-wire transmission speed sensor with direction detection

TLE4959CFXHAMA1, TLE4959CHAMA1

Special edition August 2018: Infineon Shields2Go

950 V CoolMOS™ P7

IPA95R1K2P7XKSA1, IPA95R750P7XKSA1, IPA95R450P7XKSA1, IPD95R2K0P7ATMA1, IPD95R1K2P7ATMA1, IPD95R750P7ATMA1, IPD95R450P7ATMA1, IPU95R3K7P7AKMA1, IPU95R2K0P7AKMA1, IPU95R1K2P7AKMA1, IPU95R750P7AKMA1, IPU95R450P7AKMA1, IPN95R3K7P7ATMA1, IPN95R2K0P7ATMA1, IPN95R1K2P7ATMA1



Designed to attend to the growing consumer needs in the high voltage MOSFETs arena, the latest 950V CoolMOS™ P7 technology focuses on the low power SMPS market, addressing a range of applications, such as lighting, smart meter, mobile phone charger or notebook adaptor, as well as AUX power supply and industrial SMPS. Offering 50V more blocking voltage than its predecessor CoolMOS™ C3, the new 950 V P7 series delivers outstanding performance in terms of efficiency, thermal behavior and ease-of-use.

Features

- > Best-in-class FOM $R_{DS(on)} \cdot E_{oss}$; reduced Qg, Ciss and Coss
- > Best-in-class DPAK $R_{DS(on)}$ of 450 mΩ
- > Best-in-class $V_{(GS)th}$ of 3 V and smallest $V_{(GS)th}$ variation of ± 0.5 V
- > Integrated Zener Diode ESD protection up to Class 2 (HBM)
- > Best-in-class quality and reliability

Benefits

- > Up to 1% efficiency gain and 2°C to 10°C lower MOSFET temperature as compared to CoolMOS™ C3
- > Enabling higher power density designs, BOM savings and lower assembly cost
- > Easy to drive and to design-in
- > Better production yield by reducing ESD related failures
- > Less production issues and reduced field returns

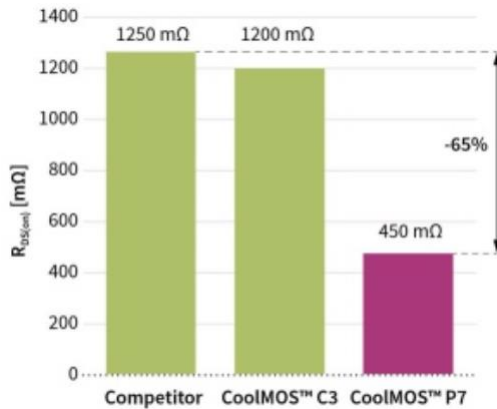
Competitive advantage

- > Best fit for target applications in terms of efficiency and thermals. Improved ESD ruggedness due to integrated Zener diode, lower switching losses compared to competition, fulfilling state of the art EMI requirements.

Target applications

- > Lighting
- > Smart Meter
- > Charger
- > Adapter
- > AUX power

Best-in-class DPAK $R_{DS(on)}$



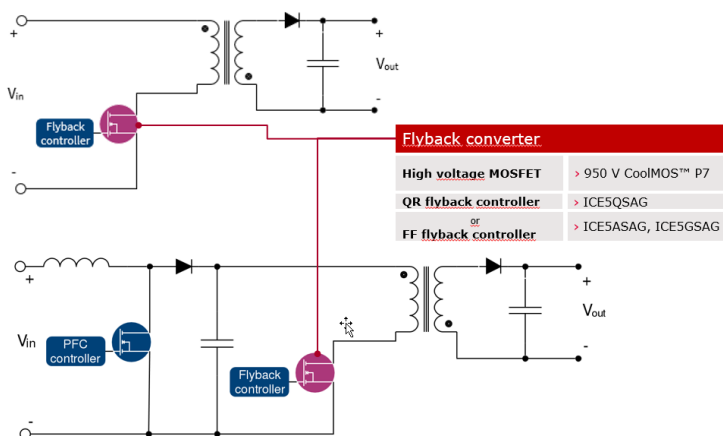
Completing products

- > PWM-QR Flyback controller (e.g. ICE5QSAG)
- > PWM-FF Flyback controller (e.g. ICE5ASAG, ICE5GSAG)

Evaluation board

- > Quasi-resonant snubberless flyback converter solution for high efficiency adapter designs - [EVAL_40W_FLY_P7_950V](#)
- > Auxiliary supply solution featuring off-line SMPS current mode controller IC with 950 V CoolMOS™ P7 SJ MOSFET – [KIT_6W_12V_P7_950V](#)

Application diagram



Products collaterals / Online support

- > 950 V CoolMOS™ P7 family [page](#)
- > Product family [brief](#)
- > Infineon's answer for flyback topologies [video](#)
- > 950 V CoolMOS™ P7 [video](#)
- > [CoolMOS™ 7 – CoolSiC™ - CoolGaN™](#) - in the heart of power
- > [CoolMOS™ 7 Brochure](#)

Application notes / Design support

- > Product family application [note](#)
- > Engineering report evaluation board application [note](#)
- > Engineering report evaluation kit application [note](#)
- > CoolMOS™ 7 - CoolSiC™ - CoolGaN™ - [selection guide](#)
- > PSpice [simulation model](#)

OPN	SP Number	Package
IPA95R1K2P7XKSA1	SP002314016	PG-TO220-3
IPA95R750P7XKSA1	SP001792304	PG-TO220-3
IPA95R450P7XKSA1	SP001792306	PG-TO220-3
IPD95R2K0P7ATMA1	SP001819720	PG-TO252-3
IPD95R1K2P7ATMA1	SP001792314	PG-TO252-3
IPD95R750P7ATMA1	SP001792316	PG-TO252-3
IPD95R450P7ATMA1	SP001792318	PG-TO252-3
IPU95R3K7P7AKMA1	SP001792320	PG-TO251-3
IPU95R2K0P7AKMA1	SP001821828	PG-TO251-3
IPU95R1K2P7AKMA1	SP001792322	PG-TO251-3
IPU95R750P7AKMA1	SP001792324	PG-TO251-3
IPU95R450P7AKMA1	SP001792326	PG-TO251-3
IPN95R3K7P7ATMA1	SP001792330	PG-SOT223-3
IPN95R2K0P7ATMA1	SP001821834	PG-SOT223-3
IPN95R1K2P7ATMA1	SP001792336	PG-SOT223-3

600 V CoolMOS™ CFD7 - High voltage superjunction MOSFET – portfolio extension

IPW60R040CFD7XKSA1, IPW60R055CFD7XKSA1, IPW60R090CFD7XKSA1, IPP60R090CFD7XKSA1, IPP60R125CFD7XKSA1, IPA60R125CFD7XKSA1, IPW60R125CFD7XKSA1

Infineon's answer for resonant high power topologies. The 600 V CoolMOS™ CFD7 is Infineon's latest high voltage superjunction MOSFET technology with integrated fast body diode and completes the CoolMOS™ 7 series. It is the ideal choice for resonant topologies in high power SMPS applications such as server, telecom and EV charging stations.



Features

- > Ultra-fast body diode
- > Best-in-class reverse recovery charge (Q_{rr})
- > Improved reverse diode dv/dt and diF/dt ruggedness
- > Lowest FOM $R_{DS(on)} \cdot Q_g$ and E_{oss}
- > Best-in-class $R_{DS(on)}$ /package combinations

Competitive advantage

- > integrated fast body diode enables a combination of all the advantages of a fast switching technology together with best-in-class commutation ruggedness
- > Up to 69 percent lower reverse recovery charge (Q_{rr}) compared to competition, makes CFD7 the most robust high voltage superjunction MOSFET on the market
- > CoolMOS™ CFD7 positions with up to 1.45 percent increased efficiency over main competition without sacrificing easy implementation in the design-in process, and attractive cost position on market price level

Benefits

- > Best-in-class hard commutation ruggedness
- > Highest reliability for resonant topologies
- > Highest efficiency and improved thermal behavior
- > Enabling increased power density solutions

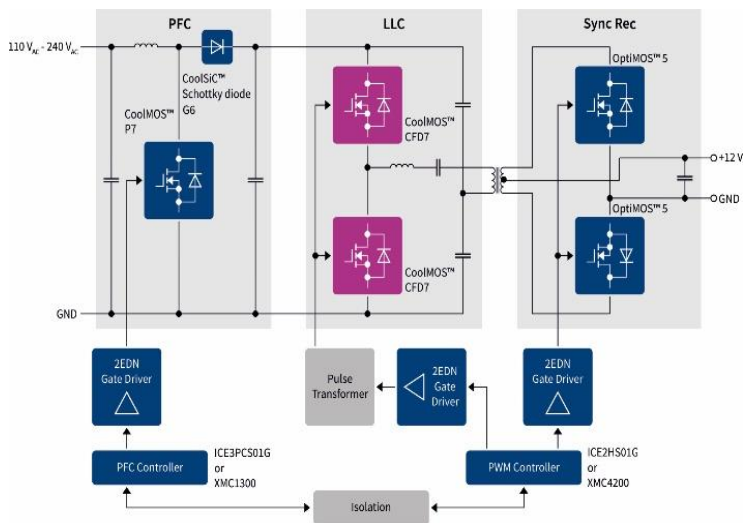
Target applications

- > Server
- > Telecom
- > EV charging
- > SMPS
- > PC power

Completing products

- > [2EDN EiceDRIVER™](#)

Block diagram



Evaluation board

- > [EVAL_1K4W_ZVS_FB_CFD7](#)
- > [EVAL_600W_LLC_FB_CFD7](#)
- > [EVAL_2KW_ZVS_FB_CFD7](#)
- > [EVAL_800W_ZVS_FB_CFD7](#)
- > [EVAL_3kW_2LLC_CFD7](#)

Products collaterals / Online support

- > Product family [page](#)
- > 600 V CoolMOS™ CFD7 SJ MOSFET [video](#)
- > Mosfet CoolMOS™ [selection guide](#)
- > Power and Sensing [selection guide](#)
- > CoolMOS product [brief](#)

Application notes / Design support

- > [MOSFET CoolMOS™ CFD7 600V \(CN\)](#)
- > [Evaluation board EVAL_1K4W_ZVS_FB_CFD7](#)
- > [Evaluation Board EVAL_3kW_2LLC_CFD7](#)
- > [Evaluation board EVAL_600W_12V_LLC_CFD7 with 600V CoolMOS™ CFD7 SJ MOSFET](#)
- > [Evaluation board EVAL_800W_ZVS_CFD7](#)
- > Mosfet CoolMOS™ CFD7 600V PSpiceEN [simulation model](#)

Product overview incl. data sheet link

OPN	SP Number	Package
IPW60R040CFD7XKSA1	SP001686068	PG-TO247-3
IPW60R055CFD7XKSA1	SP001686062	PG-TO247-3
IPW60R090CFD7XKSA1	SP001686056	PG-TO247-3
IPP60R090CFD7XKSA1	SP001686050	PG-TO220-3
IPP60R125CFD7XKSA1	SP001686028	PG-TO220-3
IPA60R125CFD7XKSA1	SP001686034	PG-TO220-3
IPW60R125CFD7XKSA1	SP001686040	PG-TO247-3

New 200 V half-bridge driver

IRS2007STRPBF, IRS2007SPBF

Infineon offers a family of 200 V gate driver ICs tailored for low voltage (24 V, 36 V, and 48 V) and mid-voltage (60 V, 80 V, and 100 V) motor drive applications. These MOSFET drivers provide full driver capability with fast switching speeds, designed-in ruggedness, and low power dissipation. The 200 V drivers ICs are offered in standard packages and pin-out configurations with various logic input options for high design flexibility and fast time-to-market.

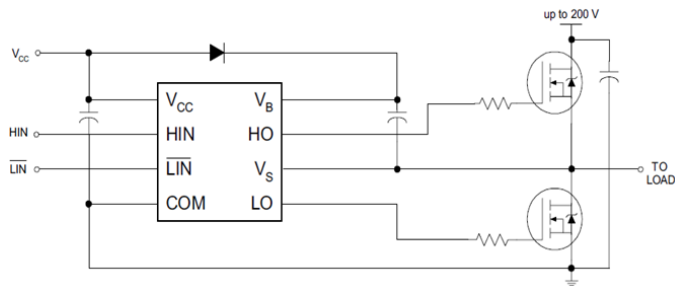
IRS2007S is the latest addition to the 200 V gate driver ICs.



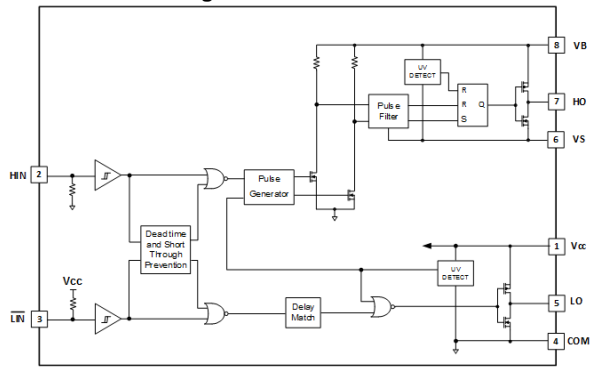
Features

- > Fully operational to +200 V offset voltage
- > 290 / 600 mA sink/source current
- > Undervoltage lockout protection for both VCC and VBS
- > Logic operational for VS of -8 V
- > 3.3 V, 5 V, 15 V input logic compatible
- > Tolerant to negative transient voltage, dV/dt immune
- > Floating channel designed for bootstrap operation
- > Matched propagation delay for both channels
- > Dead-time and cross-conduction prevention logic
- > Shutdown input turns off both channels
- > HIN and /LIN input signals
- > Available in small 8-pin SOIC

Application Block Diagram



Functional Block Diagram



Application notes / Design support

- > Infineon Solution Finder: www.infineon.com/driver-finder
- > [Using Monolithic High Voltage Gate Drivers](#)
- > HV Floating MOS-Gate Driver ICs application [note](#)
- > Use Gate Charge to Design the Gate Drive Circuit for Power MOSFETs and IGBTs application [note](#)
- > Understanding HVIC Datasheet Specifications application [note](#)
- > Gate Driver [Application Matrix](#)

Benefits

- > Higher power efficiency
- > Fast and reliable switching with protection under abnormal operation assures increased device reliability
- > Low-cost bootstrap power supply for BOM savings
- > Easy-to-use, straight-forward design for quick design-in and fast time to market

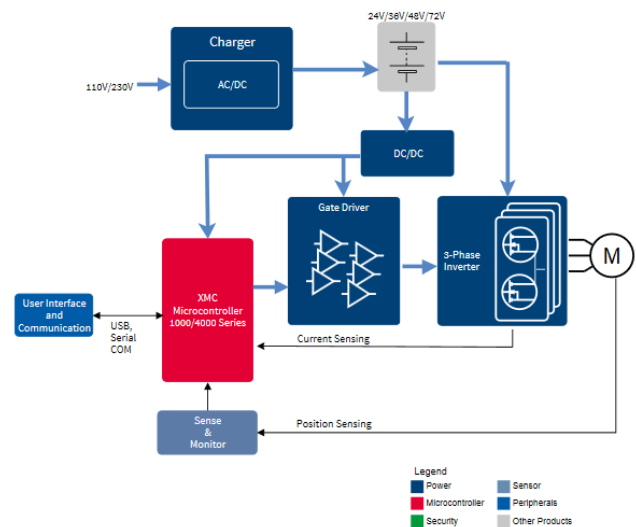
Competitive advantage

The IRS2007S is part of a larger family of low/mid-voltage drivers that cover the full range of logic input configurations. These products are well known in the market and have a very strong brand reputation with an exceptional price to performance offering.

Target applications

- > Servo Drives
- > Inverters
- > Micro Inverter Drives
- > Small Appliance Motors
- > General Purpose Three-Phase and Half-Bridge Inverters
- > LEV and Battery Driven Applications (e.g. e-Bikes, Drones, Power Tools, Vacuum robots and Multi-copters)

Application example e-Bike:



Products collaterals / Online support

- > Product family [page](#)
- > IRS2007S product [page](#)
- > 200 V HVIC family product [brief](#)
- > Product [catalog](#)

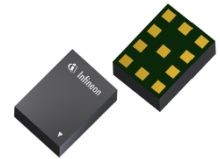
Product overview incl. data sheet link

OPN	SP Number	Package
IRS2008SPBF	SP001652868	SOIC 8N
IRS2008STRPBF	SP001599818	SOIC 8N
IRS2007STRPBF	SP001599814	SOIC 8N
IRS2007SPBF	SP001697682	SOIC 8N
IRS2005STRPBF	SP001548596	SOIC 8N
IRS2005SPBF	SP001545516	SOIC 8N
IRS2005MTRPBF	SP001534270	MLPQ 4X4 14L

SP4T RF Switch with MIPI 2.0

BGS14MA11E6327XTSA1

This SP4T RF switch is a perfect solution for multimode handsets based on LTE and WCDMA. It is based on Infineon's proprietary technology and has excellent RF performance. The ultra-low insertion loss helps customers to achieve high system sensitivity, the coverage of LTE Tx power and 6 GHz enables very broad application. It features DC-free RF ports, external DC blocking capacitors at the RF ports are only required if DC voltage is applied externally. It's on chip MIPI RFFE 2.0 controller is fully compatible with industry standard, with external USID_SEL pin it can support two devices per MIPI RFFE bus.



Features

- > LTE TX power handling capabilities
- > 0.1 to 6.0 GHz coverage for LTE and LAA application
- > No decoupling capacitors required (Unless DC applied on RF lines)
- > Ultra low insertion loss: 0.3 dB for band 41 and 0.85 dB for LTE U/LAA
- > Small form factor 1.15 mm x 1.55 mm
- > Fully compatible with MIPI 2.0 RFFE standard
- > Select pin for USID allows two devices per MIPI RFFE bus
- > No decoupling capacitors required (Unless DC applied on RF lines)

Benefits

- > Small footprint, easy for integrations
- > PCB and costs savings
- > Optimized for high frequency applications
- > Select pin for USID increases flexibility in RF FE architecture

Target applications

- > Mobile devices

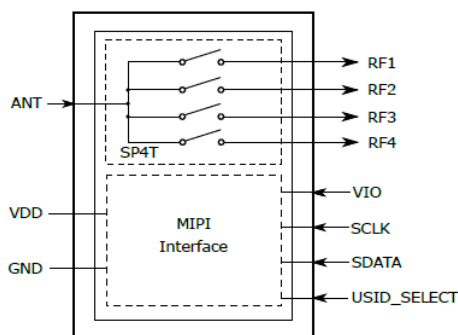
Competitive advantage

- > Ultra low insertion loss esp. at band 41
- > Optimized for LTE and LAA
- > Select pin for USID
- > Very small footprint

Completing products

- > Antenna tuning: [BGSA family](#)
- > Cross switch: [BG SX](#)

Block diagram



Product overview incl. data sheet link

OPN	SP Number	Package
BGS14MA11E6327XTSA1	SP001615916	PG-ATSLP-11

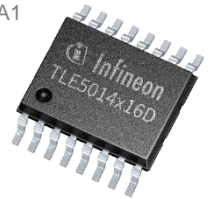
Products collaterals / Online support

- > Product [page](#)
- > RF switches [page](#)

Digital iGMR sensor for functional safety applications - ASIL C(D) with PWM, SENT and SPC interfaces

TLE5014C16XUMA1, TLE5014P16XUMA1, TLE5014S16XUMA1, TLE5014C16DXUMA1, TLE5014P16DXUMA1, TLE5014S16DXUMA1

All XENSIV™ TLE5014 angle sensors are available as single and dual die products. The products come pre-configured and pre-calibrated as plug-and-play sensors – and are thus easy to use. Today, customers can choose between the interfaces SENT, PWM and SPC. On top of those protocol options, the sensors can be adapted to any kind of application setup via their programmable E²PROM interfaces.



TLE5014 offers highest functional safety grading with an easy-to-use concept.

TLE5014 magnetic angle sensors meet ISO 26262 ASIL C for the single die and ISO 26262 ASIL D for the dual die versions. Therefore, all products are ready for applications with the highest functional safety requirements. The sensors show an extremely small angle error of less than 1° across the entire temperature profile and lifetime.

Features

- > Giant Magneto Resistance (GMR)-based principle
- > Integrated magnetic field sensing for angle measurement
- > 360° angle measurement
- > High voltage and reverse polarity capability
- > EEPROM for storage of configuration (e.g. zero angle) and customer specific ID
- > 12 bit representation of absolute angle value on the output
- > Max. 1° angle error over lifetime and temperature range
- > Developed according to ISO26262 with process complying to ASIL-D
- > Internal safety mechanisms with a SPFM > 97%
- > Interfaces: PWM, SPC, SENT (based on SAE J2716-2010)
- > 32 point look-up table to correct for systematic angle errors (e.g. magnetic circuit)
- > 112 bit customer ID (programmable)
- > ESD: 4kV (HBM) on V DD and output pin

Additional for “D” Version - dual die:

- > Two identical dies in one package (providing channel 1 and channel 2 output)
- > Fully redundant 2-channel solution for highest functional safety requirements

Qualification

- > Automotive qualified Q100, Grade 1: -40°C to 125°C (ambient temperature)

Overview product nomenclature

Product Version	# of dies	Interface
TLE5014C16	single	SPC
TLE5014P16		PWM
TLE5014S16		SENT
TLE5014C16D	dual	SPC
TLE5014P16D		PWM
TLE5014S16D		SENT

Benefits

- > Easy-to-use plug & play concept leads to minimized development time and effort
- > Easy adaption of the products to the customer's application due to the high flexibility: single and dual die products, different interface options, programmable E²PROM and look-up table
- > Highest angle accuracy
- > High voltage capability up to 26 V
- > Fully compliant development according ISO 26262: Ready for Functional Safety applications up to ASIL D level

Target applications

- > Steering Angle Sensing (SAS)
- > Motor commutation
- > Rotor position measurement
- > Electric Power Steering (EPS)
- > Pedal position
- > Safety Applications
- > any other kind of high-accuracy position measurement

Application examples:

- > Steering Angle Sensing (SAS)
- > Motor commutation
- > Rotor position measurement
- > Electric Power Steering (EPS)
- > Pedal position
- > any other kind of high-accuracy position measurement

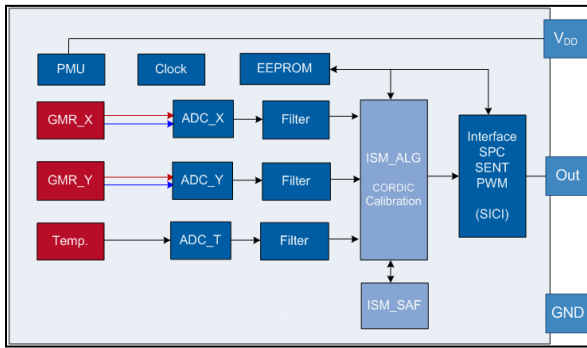
EPS safety chipset products

- > **TLE5014(D)**, a new high-precision **digital angle sensor** developed to meet **ASIL D** system requirements
- > **TLE4998 linear Hall sensor** family for torque sensing
- > **TLE5309D** for **highly accurate analog angle sensing**
- > **TLE9183 gate driver** unit optimized for ASIL-D needs
- > **Scalable Microcontroller portfolio** allowing optimum choice regarding performance flash, pin-compatibility and timer architecture.
- > **TLF35584 safety system power supply** (ASIL D)
- > **Robust scalable MOSFET portfolio** with low RDS(on)

Competitive Advantage

- > Best in class performance
- > Highest Precision Rotation Measurements
- > High level of adaption to system needs

Block diagram



Products collaterals / Online support

- > Angle sensor family [page](#)
- > XENSIV™ selection [guide](#)

Product overview incl. data sheet link

OPN	SP Number	Package
TLE5014C16XUMA1	SP001231806	PG-TDSO-16
TLE5014P16XUMA1	SP001231814	PG-TDSO-16
TLE5014S16XUMA1	SP001231818	PG-TDSO-16
TLE5014C16DXUMA1	SP001410042	PG-TDSO-16
TLE5014P16DXUMA1	SP001673472	PG-TDSO-16
TLE5014S16DXUMA1	SP001410046	PG-TDSO-16

Three-wire transmission speed sensor with direction detection

TLE4959CFXHAMA1, TLE4959CHAMA1

With the TLE4959 also 3-wire applications with the latest state-of-the art technology of IFX transmission sensors can be addressed. The Differential Hall sensor TLE4959 is the choice when a 3-wire-sensor with direction detection and active vibration suppression is needed. Beside it's outstanding airgap and best of class Hall jitter performance, with it's high immunity against stray fields it is the ideal match not only for traditional transmissions but also particularly for hybrid applications. While TLE4959C is provided with the standard protocol, the FX version gives access to different protocols (e.g. speed only) as it is to be programmed at the customer's premises.



Features

- > Common three-wire voltage interface
- > Active vibration suppression
- > direction detection output
- > FX version: flexible through customer programmable EEPROM (protocol, hysteresis level)

Benefits

- > High immunity against ESD, EMC and mechanical stress, improved voltage dropout capability
- > Programmable FX version give access to different protocols
- > Highly accurate speed measurements from 0 Hz to 10 kHz over large operating air gaps (up to 20k for -FX)

Qualification

AEC-Q100 qualified

Target applications

- > Automatic (hybrid) transmission systems
- > Transmission speed sensor

Competitive advantage

- > Outstanding air-gap
- > Best of class Hall jitter performance
- > High immunity with stray field

Products collaterals / Online support

- > TLE4959C product [page](#)
- > TLE4959C-FX product [page](#)
- > Magnetic speed sensor family [page](#)
- > XENSIV™ selection [guide](#)

Product overview incl. data sheet link

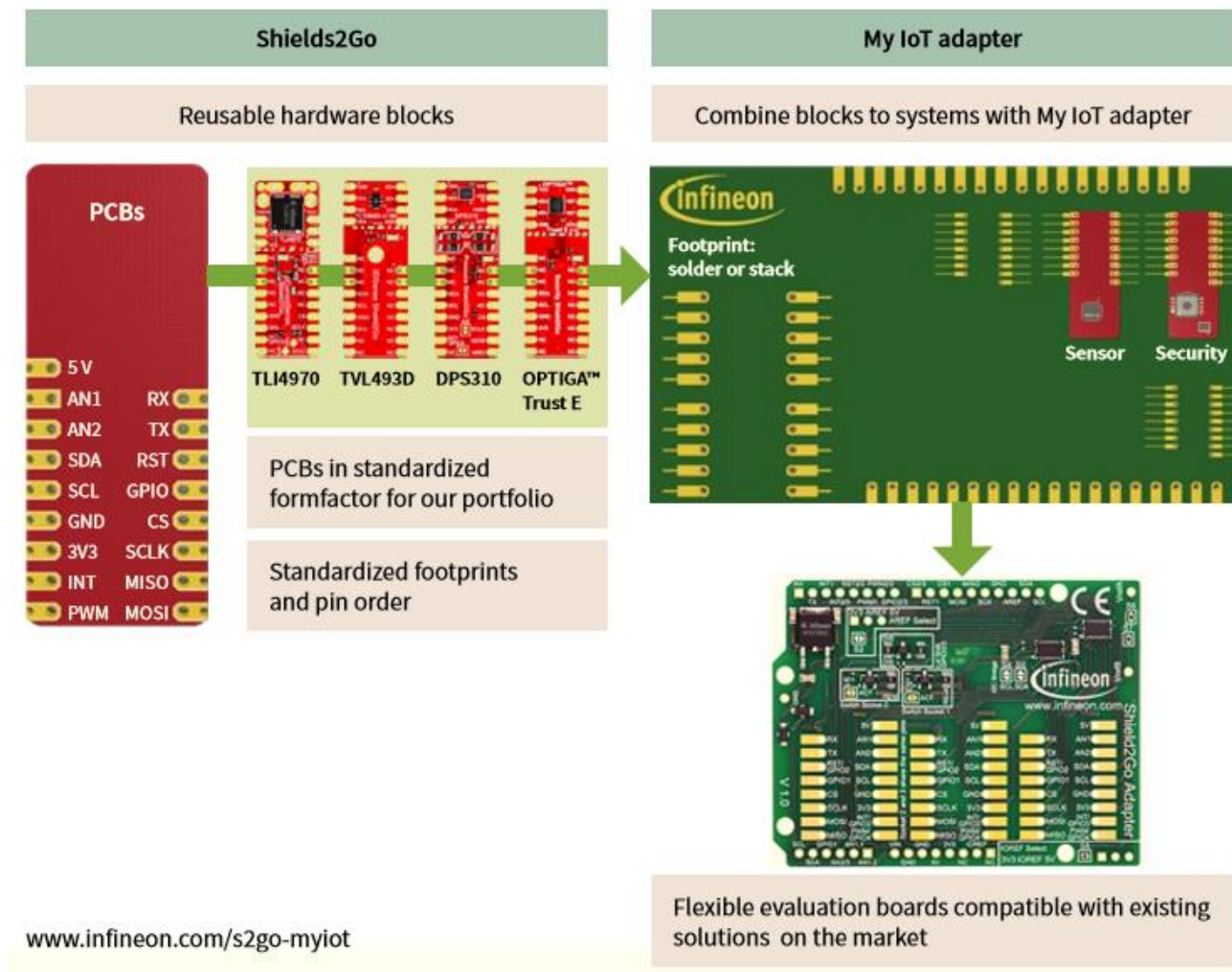
OPN	SP Number	Package
TLE4959CHAMA1	SP001671650	PG-SSO-3
TLE4959CFXHAMA1	SP001040492	PG-SSO-3

Special edition August 2018: Infineon Shields2Go

Infineon's Shield2Go boards are equipped with one featured Infineon IC and provide a standardized form factor and pin layout for fast orientation. All boards come with solderless connectors allowing designers to stack the boards instead of soldering them. This makes the Shield2Go boards simple, reusable, and flexible.

In addition, each Shield2Go comes with a dedicated and ready-to-use, free Arduino library. The Shield2Go boards are compatible with all Arduino solutions with Infineon's My IoT adapters. Customers can now develop their own system solutions by combining 2Go boards together with Infineon MyIoT adapters. MyIoT adapters are gateways to external hardware solutions like Arduino and Raspberry PI, which are popular IoT evaluation platforms.

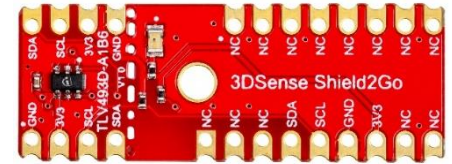
All this enables the fastest evaluation and development of IoT system on the market!



TLV493D 3DSense Shield2Go

S2GO_3D-SENSE_TLV493D

Infineon's S2Go_3DSense_TLV493D boards offer a unique customer and evaluation experience – the boards are equipped with one TLV493D-A1B6 magnetic sensor.



Features

- > 3D magnetic sensing
- > Low current consumption 0.007 μ A in power down mode
- > 2.7 to 3.5 V operating supply voltage
- > Digital output via 2-wire standard I2C interface
- > Bx, By and Bz linear field measurement up to ± 130 mT
- > 12-bit data resolution for each measurement direction
- > Operating temperature range from -40 °C to 125 °C
- > TSOP6 package
- > Free and easy download of Arduino libraries
- > 2Go boards can be easily combined to systems by using MyIoT adapters

Target application

- > Joystick e.g. finger, thumb and gaming paddles
- > E-meters e.g. anti-tampering
- > Control elements e.g. white goods, multifunction knob
- > ideally suited for the measurement of 3D movement, Linear travel and 360° angle rotation

Products collaterals / Online support

- > Shields2Go value proposition [presentation](#)
- > 3D sense Shield2Go [page](#)
- > Shields2Go product [page](#)
- > Shields2Go product [brochure](#)
- > TLV493D-A1B6 product [page](#)
- > TLV493D-A1B6 [datasheet](#)
- > XENSIV™ [selection guide](#)

Product overview

OPN	SP Number
S2GO3DSENSETLV493DTOBO1	SP001823678

DPS310 Pressure Shield2Go

S2GO PRESSURE DPS310

S2Go_Pressure_DPS310 is an Arduino shield including DPS310. DPS310 is a barometric pressure sensors which offers excellent pressure noise performance and high stability with temperature.



Features

- > Ultra-high ± 0.005 hPa resolution (equating to ± 5 cm)
- > Very good temperature stability due to a linear temperature dependency. Relative accuracy ± 0.06 hPa
- > Integrated FIFO can store up to 32 pressure/temperature measurements, which enables energy savings on system level
- > Optimized energy usage (fully configurable precision and measurement rate)
- > Wide pressure operation range 300hPa – 1200hPa
- > 3 μ m current consumption in low power mode
- > Temperature accuracy $\pm 0.5^\circ\text{C}$
- > Free and easy download of Arduino libraries
- > 2Go boards can be easily combined to systems by using MyIoT adapters

Target application

- > Smart home
- > Wearables (sport & fitness tracking)
- > Drones
- > Indoor and outdoor navigation
- > Accurate altitude metering
- > Weather forecast and storm warning
- > IoT applications
- > HDDs

Products collaterals / Online support

- > Shields2Go value proposition [presentation](#)
- > DPS310 pressure Shield2Go [page](#)
- > Shields2Go product [page](#)
- > Shields2Go product [brochure](#)
- > DPS310 product [page](#)
- > DPS310 [datasheet](#)
- > XENSIV™ [selection guide](#)

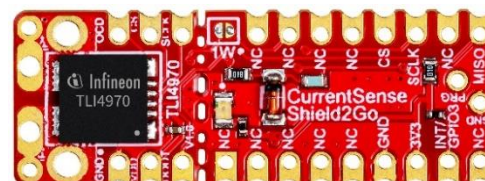
Product overview

OPN	SP Number
S2GOPRESSUREDPS310TOBO1	SP001777630

TLI4970 Current Sense Shield2Go

S2GO_CUR-SENSE_TLI4970

Infineon's S2Go_CurrentSenseTLI4970 boards are equipped with one TLI4970. TLI4970 is a high-precision current sensor based on Infineon's proven Hall technology. The coreless concept significantly reduces footprint compared with existing solutions. It's an easy-to-use, fully digital solution that does not require external calibration or additional parts such as A/D converters, 0 pAmps or reference voltage.



Features

- > AC & DC measurement range up to $\pm 50A$
- > Highly accurate over temperature range and lifetime (max. 1.0% (0 h))
- > 1.6% (over lifetime) of indicated value)
- > Low offset error (max. 25mA)
- > Fast overcurrent detection with configurable threshold
- > Galvanic isolation up to 2.5kV max. rated isolation voltage (UL1577)
- > 16 bit digital SPI output (13 bit current value)
- > Small 7 mm x 7 mm SMD package
- > Free and easy download of Arduino libraries
- > 2Go boards can be easily combined to systems by using MyloT adapters

Target application

- > Photovoltaic and general purpose inverters
- > Power supplies (SMPS)
- > Battery chargers
- > Lighting applications
- > Electrical drives

Products collaterals / Online support

- > Shields2Go value proposition [presentation](#)
- > TLI4970 Shield2Go [page](#)
- > Shields2Go product [page](#)
- > Shields2Go product [brochure](#)
- > TLI4970 product family [page](#)
- > XENSIV™ [selection guide](#)

Product overview incl. data sheet link

OPN	SP Number
S2GOCURSENSETLI4970TOBO1	SP001823682

OPTIGA™ Trust E Security Shield2Go

S2GOSECURITYOPTIGAETOBO1

Infineon's Shields2Go Security OPTIGA™ Trust E boards offer a unique customer and evaluation experience – the boards are equipped with one OPTIGA™ Trust E security chip and come with a ready to use Arduino library.

OPTIGA™ Trust E is a high-security solution for industrial automation systems, smart homes, consumer or medical devices, providing enhanced protection of services, business models and user experience.

Based on its 1-way authentication mechanism, it uniquely identifies objects and protects PKI networks. The turnkey set-up with full system integration and all key material preprogrammed aims to minimize your efforts in order to maintain a fast and easy integration. The high-end security controller comes with OS, embedded application and complete host side integration support and is moreover compliant to the new USB Type-C standard.



Features

- > equipped with one OPTIGA™ Trust E security chip
- > ready to use Arduino library
- > By combining 2Go boards with Infineon MyloT adapters customized system solutions can be developed

Target application

- > Device authentication
- > Embedded systems networked over the IoT
- > Industrial control and automation
- > Medical devices
- > Consumer electronics
- > Smart Home
- > PKI networks

Products collaterals / Online support

- > Shields2Go value proposition [presentation](#)
- > S2Go Security OPTIGA™ E [page](#)
- > Shields2Go product [page](#)
- > Shields2Go product [brochure](#)
- > OPTIGA™ Trust family [page](#)
- > OPTIGA™ Trust E product [page](#)

Product overview incl. data sheet link

OPN	SP Number
S2GOSECURITYOPTIGAETOBO1	SP001820138

XMC 2GO

KITXMC2GOXMC1100V1TOBO1

The XMC 2Go Kit with XMC1100 is maybe the world's smallest, fully featured Microcontroller Evaluation Kit showcasing - XMC1100 (ARM® Cortex™-M0 based).



Features

- > 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
- > 2 x user LED
- > Pin Header 2x8 Pins suitable for Breadbord

Target application

- > Industrial applications

Products collaterals / Online support

- > XMC2Go [page](#)
- > Shields2Go product [page](#)
- > Shields2Go product [brochure](#)
- > 32-bit industrial microcontroller family [page](#)
- > Shields2Go value proposition [presentation](#)

Product overview incl. data sheet link

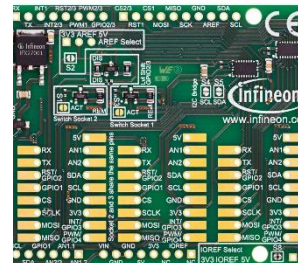
OPN	SP Number
KITXMC2GOXMC1100V1TOBO1	SP001199544

My IoT adapter board for arduino

MYIOTADAPTERTOBO1

The My IoT Adapter board enables designers to combine the Shield2Go boards into a system. Infineon's flexible evaluation boards are compatible with the existing solutions on the market.

My IoT adapters act as gateways to external hardware solutions such as Arduino and Raspberry PI, which are popular IoT evaluation platforms.



Product overview incl. data sheet link

OPN	SP Number
MYIOTADAPTERTOBO1	SP002434972