Fast, flexible, and easy prototyping for IoT applications

Infineon's Shield2Go boards and My IoT adapter

infineon

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Easy evaluation for shorter time to market

Through semiconductors and innovation, Infineon makes growth possible. With its technologies, Infineon helps to create sustainable and stable IoT environments by providing solutions with advanced sensing capabilities through sensors, control and processing (microcontrollers), security, and efficient power management.

Key benefits

Faster prototyping and shorter time to market

Customized prototyping

Easy to connect to external systems

Flexible use

Cost savings - Arduino-ready at an attractive price

www.infineon.com/2go

Prototyping has never been easier

Infineon's Shield2Go boards are equipped with featured Infineon ICs 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 usage of the Shield2Go boards simple and flexible. In addition, each Shield2Go board comes with a dedicated and ready-to-use software library for Arduino.

The Shield2Go boards are compatible with Arduino Uno with Infineon's My IoT adapter. This combination of flexible hardware components and accompanying software speeds up the prototyping process. Designers now can select only those parts that the intended design and layout require, thus reducing the costs for a "box" or all-in-one solution of components that are rarely used in their entirety.

Product overview

Advanced sensing capabilities for edge devices

DPS310 Pressure Shield2Go
Featured product: XENSIV™
pressure sensor DPS310
OPN: S2GOPRESSUREDPS310TOBO1

Interfaces:

| I²C | SPI | INT | PWM | UART | Analog |

TLV493D 3DSense Shield2Go
Featured product: XENSIV™ magnetic
position sensor TLV493D-A1B6
OPN: S2GO3DSENSETLV493DTOBO1

Interfaces:

| I²C | SPI | INT | PWM | UART | Analog |

IM69D130 Microphone Shield2Go
Featured product: XENSIV™ MEMS
microphone IM69D130
OPN: S2GOMEMSMICIM69DTOBO1
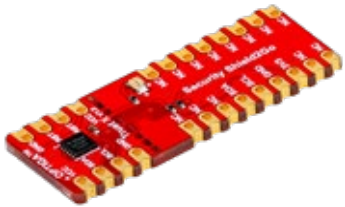
Interfaces:

| I²C | SPI | INT | PWM | UART | Analog |

TLI4970 Current Sense Shield2Go
Featured product: XENSIV™ magnetic
current sensor TLI4970-D050T4
OPN: S2GOCURSENSETLI4970TOBO1

Interfaces:

| I²C | SPI | INT | PWM | UART | Analog |

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Trusted security solutions

OPTIGA™ Trust X Security Shield2Go

Featured product: OPTIGA™ Trust X SLS 32AIA
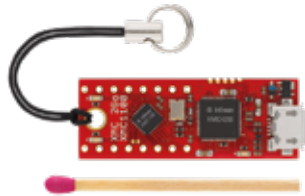
OPN: S2GOSECURITYOPTIGAXTOBO1

Interfaces:

| I²C | SPI | INT | PWM | UART | Analog |

OPTIGA™ Trust E Security Shield2Go

Featured product: OPTIGA™ Trust E SLS 32AIA

OPN: S2GOSECURITYOPTIGAETOBO1

Interfaces:

| I²C | SPI | INT | PWM | UART | Analog |

Cross-application control

XMC™ 2Go kit

Featured product: XMC1100 (ARM® Cortex™-M0 based)

OPN: KITXMC2GOXMC1100V1TOBO1

Interfaces:

| I²C | SPI | INT | PWM | UART | Analog |

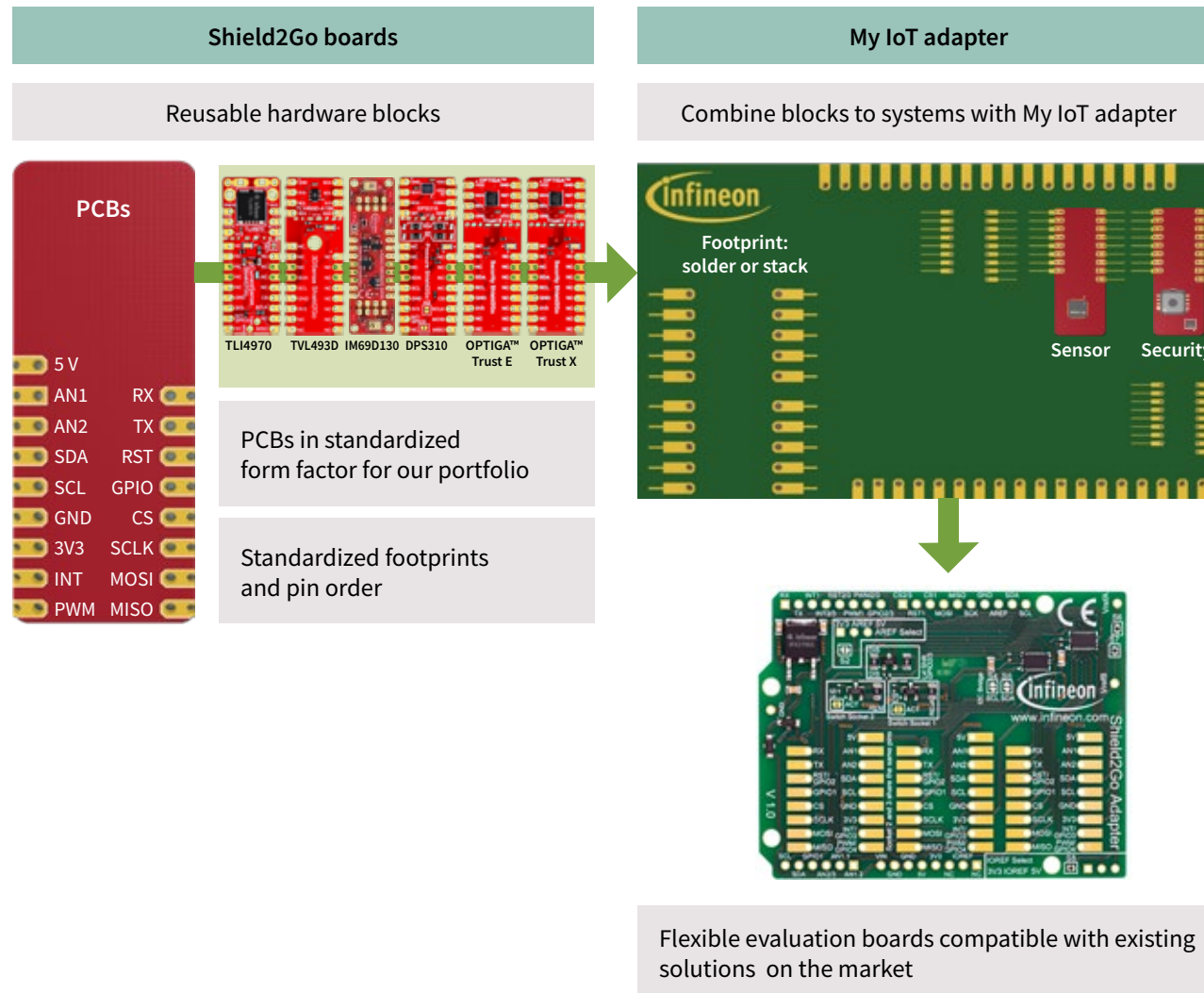## My IoT adapter board for Arduino

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, one of the most common IoT evaluation and prototyping platforms.

OPN: MYIOTADAPTERTOBO1

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Shield2Go boards and My IoT adapter

Concept for modular blocks of hardware

Maximum flexibility with minimum effort

Shield2Go boards
Reusable hardware blocks

TLI4970 TVL493D IM69D130 DPS310 OPTIGA™ Trust E OPTIGA™ Trust X

PCBs in standardized form factor for our portfolio

Standardized footprints and pin order

PCBs

5 V
AN1   RX
AN2   TX
SDA   RST
SCL   GPIO
GND   CS
3V3   SCLK
INT   MOSI
PWM   MISO

My IoT adapter
Combine blocks to systems with My IoT adapter

Footprint: solder or stack

Sensor   Security

Flexible evaluation boards compatible with existing solutions on the market

The IoT market and environment consist of a range of different wireless connectivity technologies, offering varying benefits. In the end, it is the designer who decides which to use.

Infineon's new prototyping concept consists of a hardware and a software package that allows designers to quickly and efficiently set up the demonstration environment. The prototyping concept based on Shield2Go boards and My IoT adapters provides designers with the flexibility they seek.

Engineers can now develop their own, customized system solutions by selecting and combining Shield2Go boards in multiple ways based on their needs and use cases. Together with Infineon's My IoT adapter, they are able to easily connect to external systems.

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