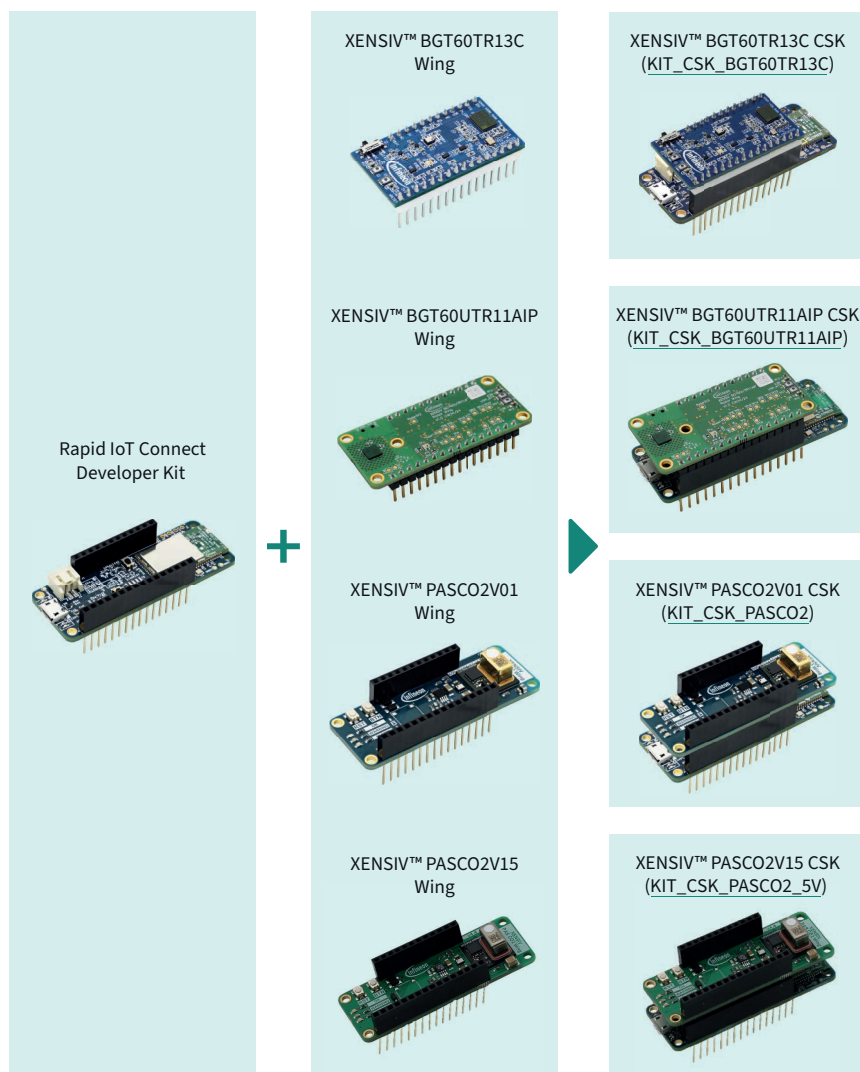# XENSIV™ connected sensor kit

Infineon

One-stop-shop for any IoT device development based on XENSIV™ radar, gas and pressure sensors

The connected sensor kit (CSK) solves the four biggest challenges of any IoT device development and deployment: sensing the world around us (sense), making sense of the raw data (compute), and connecting devices to the cloud (connect).

It is a feather-compatible development kit for rapid prototyping and deployment of IoT devices. It consists of Infineon's highly accurate and precise XENSIV™ sensors (BGT60TR13C, BGT60UTR11AIP 60 GHz radar sensors, PASCO2V01 and PASCO215 gas sensors, and DPS368 pressure sensor), low-power dual-core microcontroller (PSOC™ 62), Bluetooth® and Wi-Fi as connectivity options, all within a software ecosystem provided through ModusToolbox™.
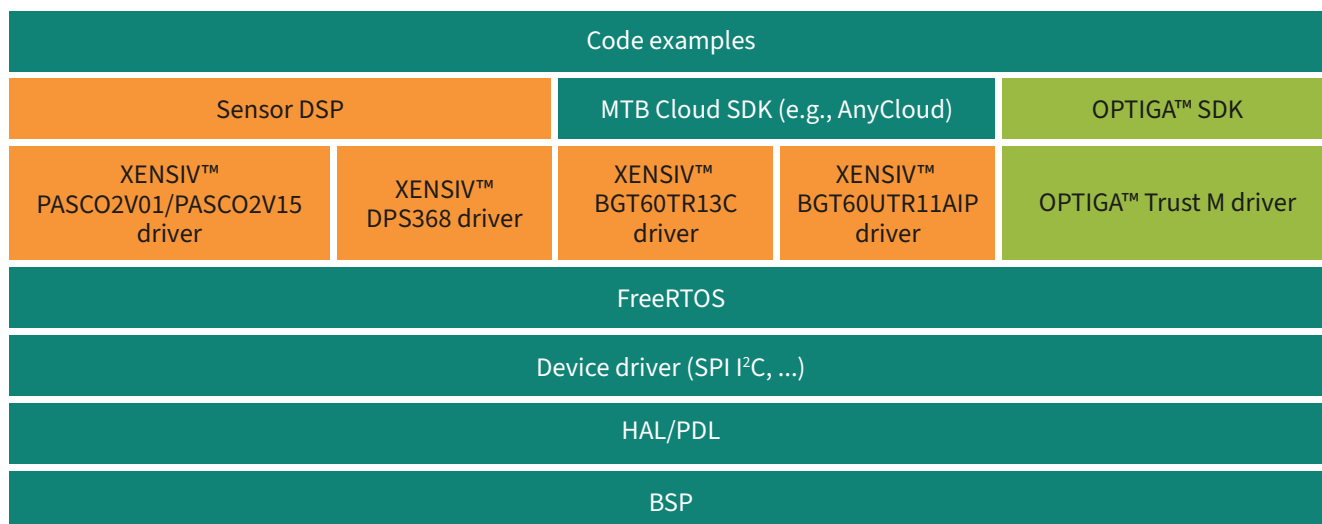

Rapid IoT Connect Developer Kit

XENSIV™ BGT60TR13C Wing

XENSIV™ BGT60TR13C CSK (KIT_CSK_BGT60TR13C)

XENSIV™ BGT60UTR11AIP Wing

XENSIV™ BGT60UTR11AIP CSK (KIT_CSK_BGT60UTR11AIP)

XENSIV™ PASCO2V01 Wing

XENSIV™ PASCO2V01 CSK (KIT_CSK_PASCO2)

XENSIV™ PASCO2V15 Wing

XENSIV™ PASCO2V15 CSK (KIT_CSK_PASCO2_5V)

Key features

– Small form factor: $22.5 \times 63 \times 30$ mm³ – Adafruit Feather compatible
– Flexibility: Interchangeable sensor Wing boards-stacked individually or combined
– Sensors: XENSIV™ BGT60TR13C, BGT60UTR11AIP, PASCO2V01, PASCO2V15 and DPS368 sensors
– PSOC™ 62 microcontroller
– Connectivity: AIROC™ CYW43012 dual-band 2.4 GHz and 5 GHz Wi-Fi 4 (802.11n) and Bluetooth® 5.4 combo radio module
– Security: OPTIGA™ Trust M for secured authentication of IoT devices

Key benefits

– Rapid prototyping for fast development and deployment
– Fast IoT experience enabled by XENSIV™ sensors
– Seamless integration to ModusToolbox™ with application code examples and sensor drivers for faster go-to-market

Software stack in ModusToolbox™

Code examples				
Sensor DSP	MTB Cloud SDK (e.g., AnyCloud)			OPTIGA™ SDK
XENSIV™ PASCO2V01/PASCO2V15 driver	XENSIV™ DPS368 driver	XENSIV™ BGT60TR13C driver	XENSIV™ BGT60UTR11AIP driver	OPTIGA™ Trust M driver
FreeRTOS				
Device driver (SPI I²C, …)				
HAL/PDL				
BSP				

Sensors

– XENSIV™ BGT60TR13C, BGT60UTR11AIP 60 GHz radar sensors, PASCO2V01 and PASCO2V15 gas sensors, and DPS368 pressure sensor

Microcontroller and connectivity

– PSOC™ 62 MCU (Arm® Cortex®-M4F/M0+)
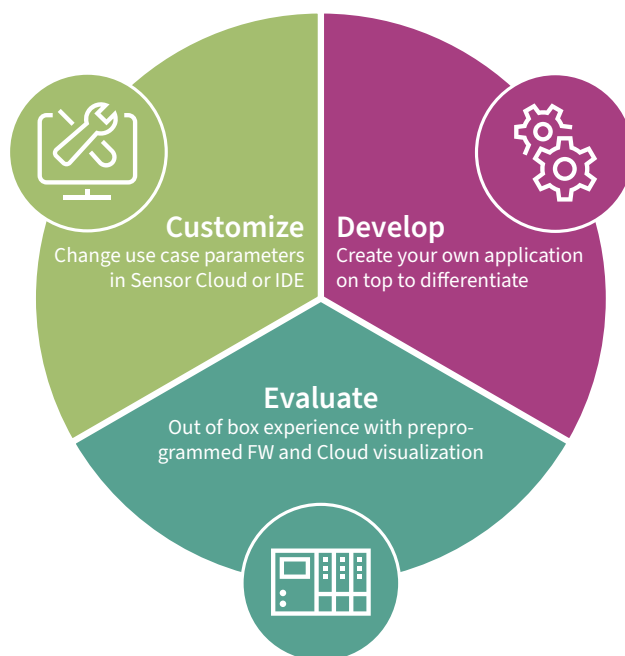– AIROC™ CYW43012 Wi-Fi-Bluetooth® combo radio module

Security

– OPTIGA™ Trust M security solution

Kit certification

– $C\epsilon$

Target applications

– Smart home and building, Home appliances, Heating ventilation and air conditioning (HVAC) systems

Customize
Change use case parameters in Sensor Cloud or IDE

Develop
Create your own application on top to differentiate

Evaluate
Out of box experience with preprogrammed FW and Cloud visualization

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