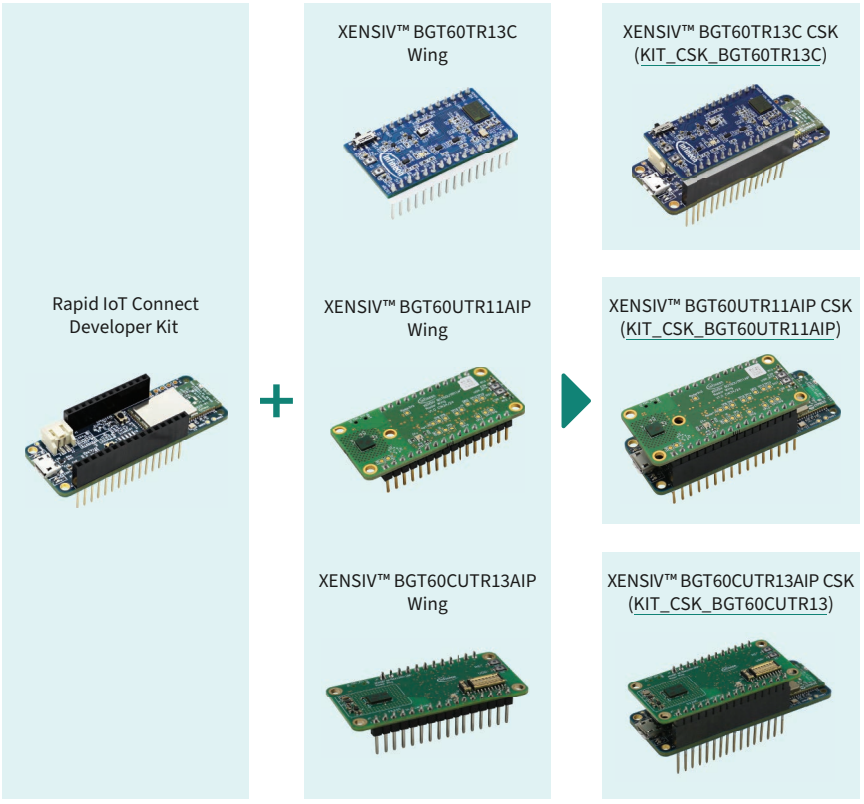
PRODUCT BRIEF

XENSIV™ connected sensor kit

One-stop-shop for any IoT device development based on XENSIV™ radar 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, BGT60CUTR13AIP 60 GHz CMOS radar sensor, 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™.



Key features

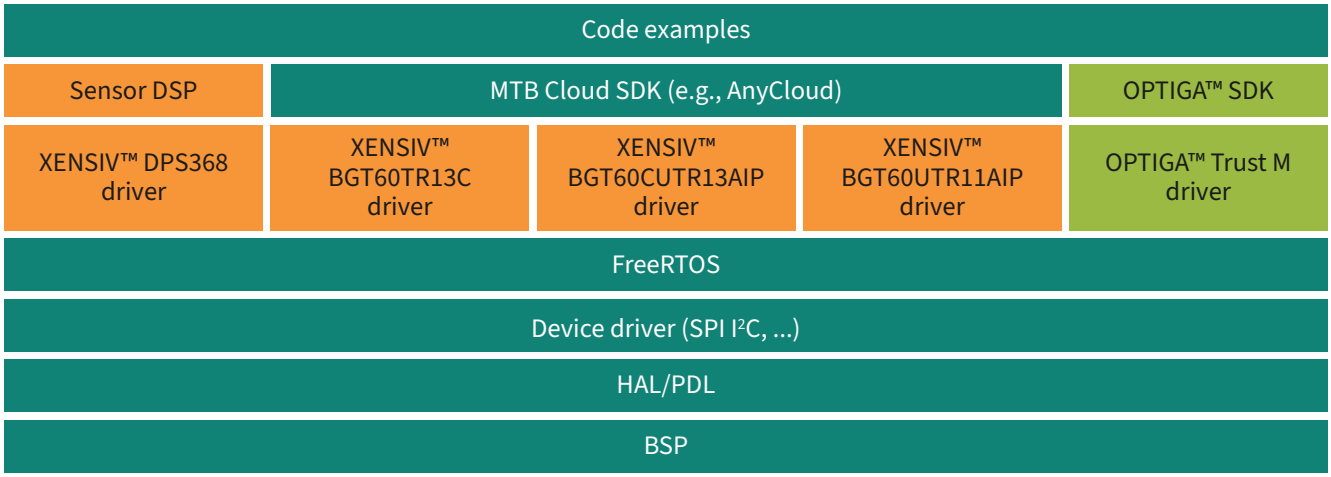
- Small form factor: 22.5 x 63 x 30 mm^3 – Adafruit Feather compatible
- Flexibility: Interchangeable sensor Wing boards-stacked individually or combined
- Sensors: XENSIV™ BGT60TR13C, BGT60UTR11AIP, BGT60CUTR13AIP and DPS368 sensors
- PSOC™ 62 microcontroller
- Connectivity: AIROC™ CYW43012 dual-band 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

www.infineon.com/csk

Software stack in ModusToolbox™



Sensors

– XENSIV™ BGT60TR13C, BGT60UTR11AIP 60 GHz radar sensors, BGT60CUTR13AIP 60 GHz CMOS radar sensor and DPS368 pressure sensor

Microcontroller and connectivity

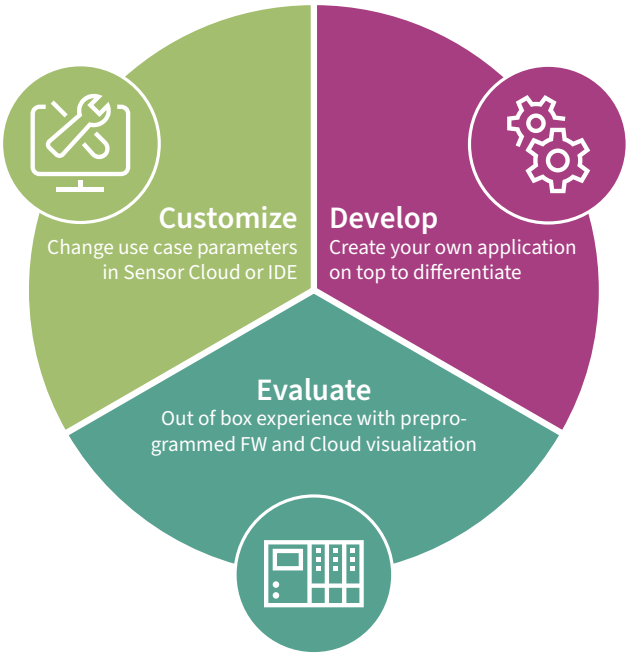
– PSOC™ 62 MCU (Arm® Cortex®-M4F/M0+)
– AIROC™ CYW43012 Wi-Fi-Bluetooth® combo radio module

Security

– OPTIGA™ Trust M security solution

Kit certification

– CE



Target applications

– Consumer electronics
– Heating ventilation and air conditioning (HVAC) systems
– Robotics
– Security camera and video doorbell
– Smart home and building, Home appliances

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