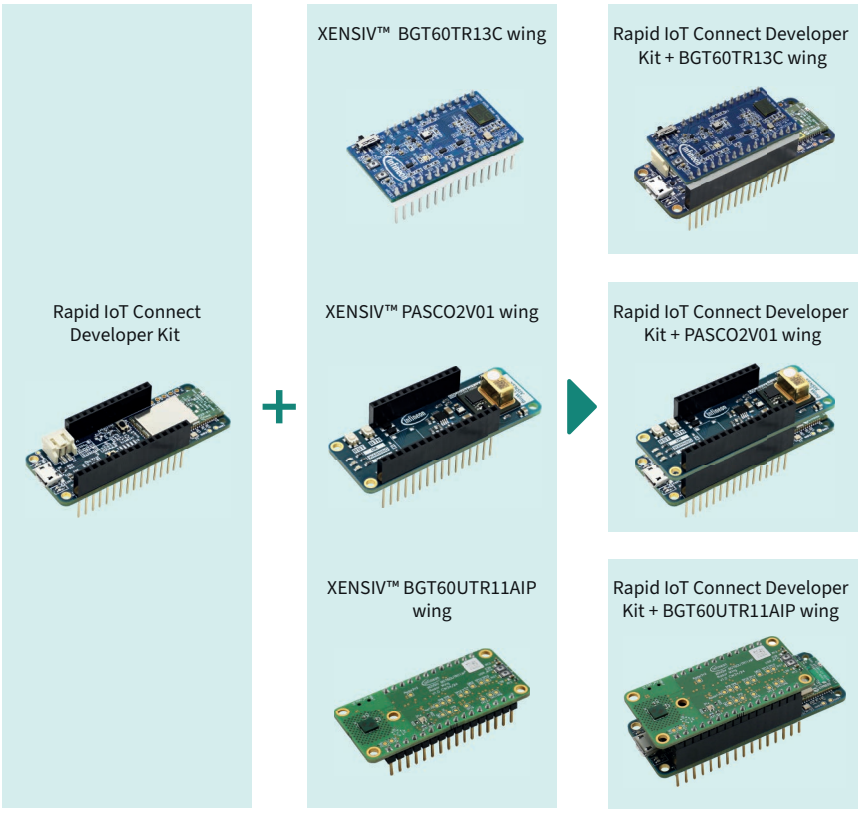
APPLICATION BRIEF

XENSIV™ connected sensor kit

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 gas 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

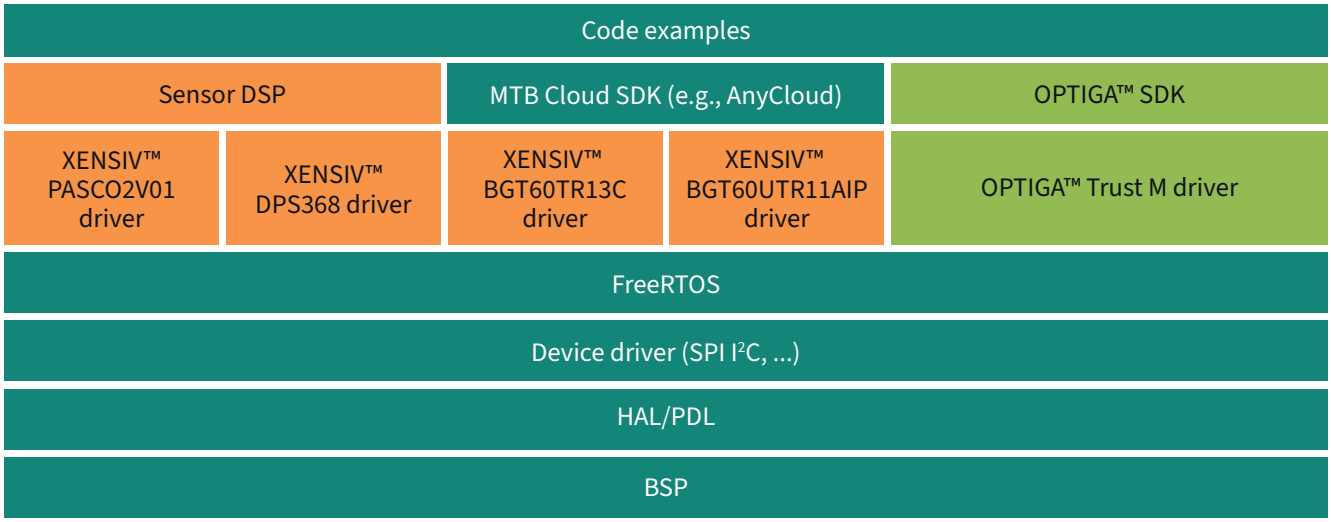
- Small form factor: 22.5 x 63 x 30 mm^3 – Adafruit Feather compatible
- Flexibility: Interchangeable sensor wing boards-stacked individually or combined
- Sensors: XENSIV™ BGT60TR13C, BGT60UTR11AIP 60 GHz radar sensors, PASCO2V01 gas sensor and DPS368 pressure sensor
- PSOC™ 62 microcontroller
- Connectivity: 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: a connected sensor kit 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™



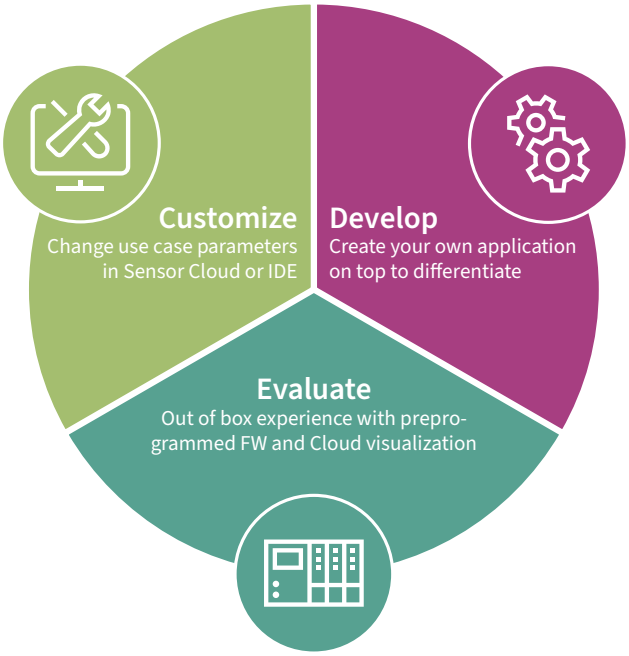
Sensors
- XENSIV™ BGT60TR13C, BGT60UTR11AIP 60 GHz radar sensors, PASCO2V01 gas sensor and DPS368 pressure sensor

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
- Smart Home and Building, Home appliances, Heating Ventilation and Air Conditioning (HVAC)



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