

CY8CKIT-062S2-AI

PSoC™ 6 Artificial Intelligence Evaluation Kit

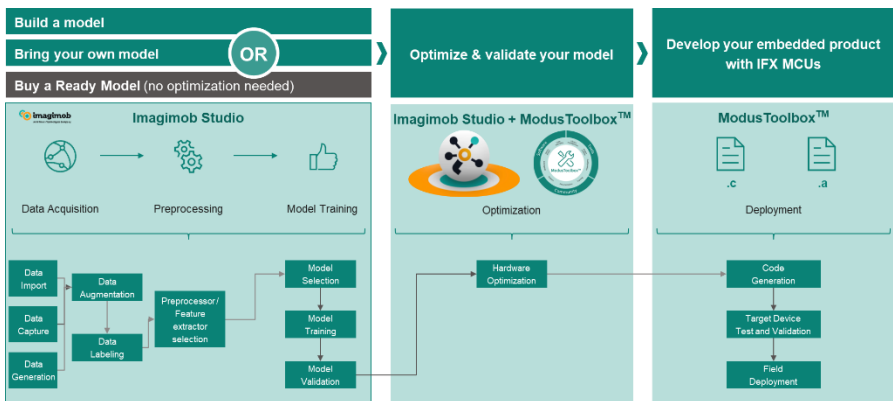
Infineon’s PSoC™ 6 Artificial Intelligence Evaluation Kit is your perfect partner for easy prototyping and collecting real-life data to build compelling ML products fast. Being only the size of a cracker, the hardware platform focused on Edge AI enables customers to evaluate Infineon’s Machine Learning platform Imagimob Studio, as well as ready to deploy ML models, and other software products.

Data collection is enabled via [PSoC™ 6 MCU](#), as well as Radar ([BGT60TR13C](#)), high-performance digital MEMS microphone ([IM72D128](#)), Barometric Air Pressure Sensor ([DPS368](#)) & IMU sensors (Bosch [BMI-270](#), [BMM-350](#)). Connectivity is enabled with WiFi/BT BLE Combo (Murata [LBEE5KLIYN](#)).



END-TO-END MACHINE LEARNING TO EMBEDDED SOFTWARE JOURNEY

No matter whether you have an ML model already and want to deploy on a target HW, or whether you want to create a new model, you can enter at any stage with Imagimob Studio.



CODE EXAMPLES (Highlights)

- Imagimob Data Collection with IMU and Microphones: Collect your own data and feed it into Imagimob Studio for custom model creation.
- Imagimob Optimized Model Deployment: Deploy your newly created model optimized and quantized for the PSoC™ 6.
- Radar Presence Detection: Detect whether there is somebody within range of the kit.
- Wireless Connectivity for Cloud Connection and Reporting: Keep the edge informed of its intelligence by synchronizing within the cloud.

Key features

Designed for ease-of-use and end-to-end Machine Learning

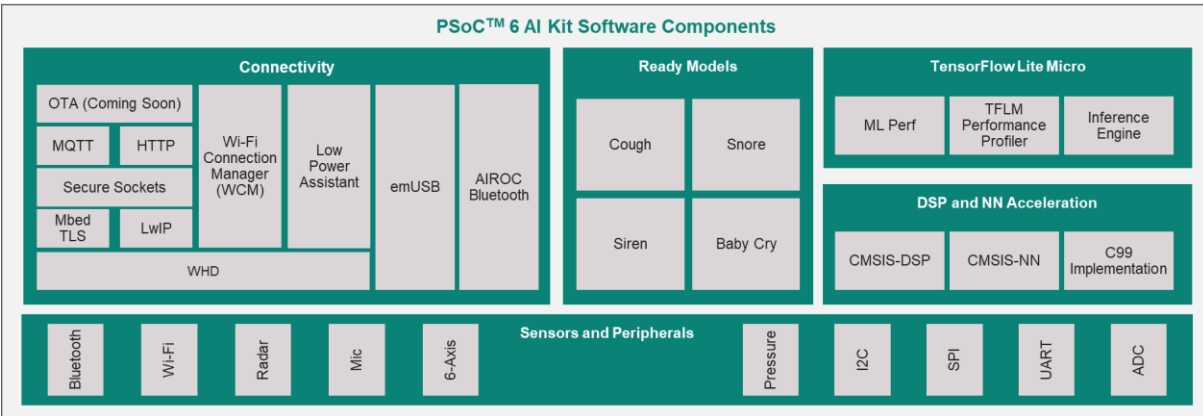
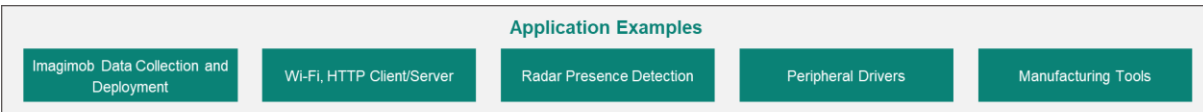
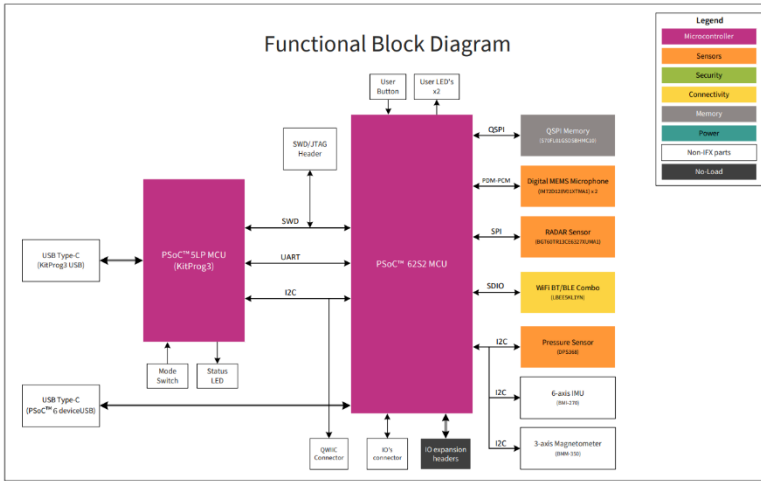
- Small form-factor (35x45mm), wireless, low cost
- Solution approach with PSoC™ 6, QSPI Flash + multi-sensor input (radar, microphone, pressure & 6-axis motion sensors)
- Production ready ML models: Imagimob Ready Models (siren, coughing, baby cry, snoring)
- Complete ML to embedded SW journey: ModusToolbox™ & Imagimob Studio compatible

Key benefits

- Low-cost evaluation board with efficient form factor for easy prototyping
- Rapid prototyping: Easy creation of sensor fusion-, ML-, acoustic-, time series- and radar models
- Fast time to market at minimal development cost, direct launch for PSoC™ 6 & AURIX™
- End-to-end: Collect data, create, train, evaluate & deploy ML models fast
- Seamless integration to ModusToolbox™ and Imagimob Studio with application code examples



FUNCTIONAL BLOCK DIAGRAM & SOFTWARE ARCHITECTURE



Important Links

- Find out more about the kit [here](#)
- Download the Imagemob Studio development tool [here](#)
- Evaluate one of our Ready Machine Learning Models [here](#)

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