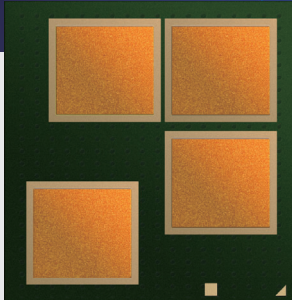


The world's first SoC integrated 60GHz mmWave radar, deep learning algorithms and AI accelerators for hand gesture recognition application.

Low power consumption, Low latency, High resolution, and Small form factor



K60168-PBBA

SoC Key Feature

- MCU: ARM® Cortex™-M0 core
- 32-bit hardware multiplier
- 40MHz Clock rate
- Integrated mmWave transceiver, baseband, radar DSP, AI accelerator, DC/DC, and PMU
- Antenna in package (AiP) design
- 1T3R
- External 8Mbits 3.3V flash, QSPI
- Support I2C or UART*1/GPIO/SPI*2
- Build-in temperature sensor
- 6.5*6.0*1.6mm

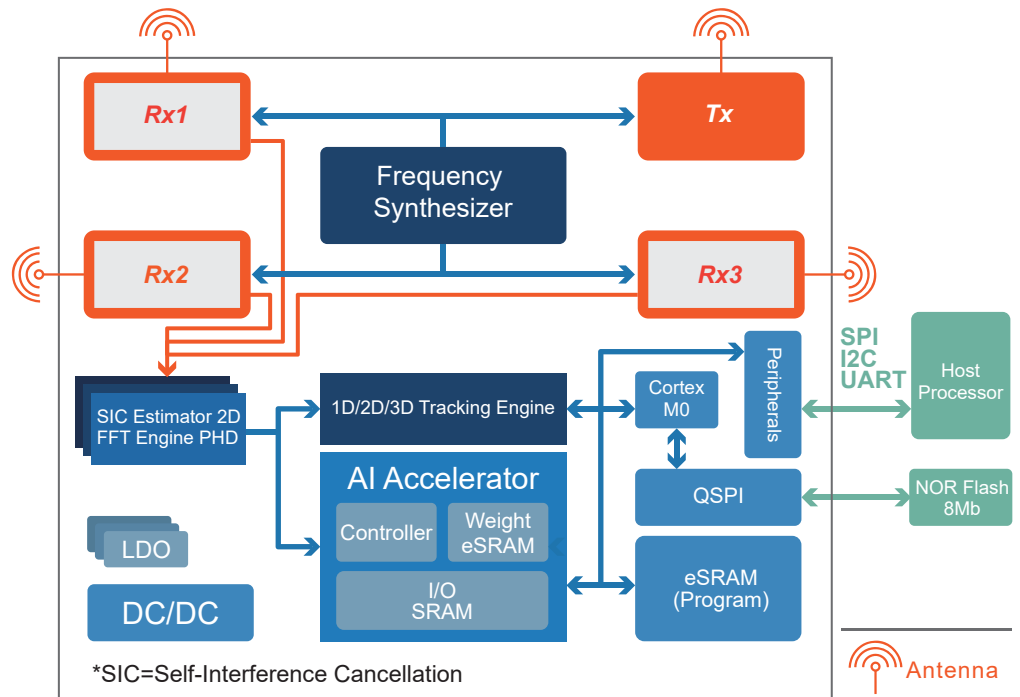
Gesture Control Feature

- Operation distance 1 ~ 30 cm
- FOV +/- 30° 3dB beamwidth
- Gesture Recognition (accuracy > 95%)
- Object tracking, support 1D to 3D position tracking
- Provides pre-trained gestures

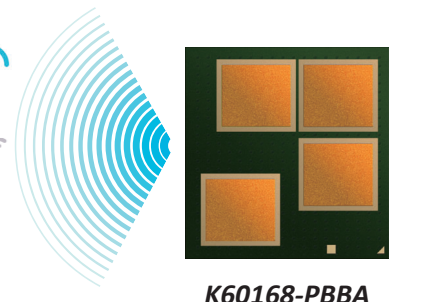
Product Description

K60168-PBBA is a Hand Gesture Recognition SoC using 60GHz millimeter-wave Radar and AI accelerator. This SoC has 1 transmit antenna and 3 receive antennas which are integrated on top of a 6.5 x 6mm package. K60168-PBBA is also able to perform 1D, 2D, and 3D position tracking. As it stands, it can be used in numerous smart wearable devices such as headphones, TWS, smartwatch, smartglasses and AIoT applications such as smart home, gaming, smart building, etc. as Human-Interface devices.

Block Diagram



Air-Gesture Control



K60168-PBBA in final product mockup

Application Scenario

