

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 performance, small package



K60168-MABA

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
- External 8Mbits 3.3V flash, QSPI
- Support I2C or UART*1/GPIO/SPI*2
- Build-in temperature sensor
- 6.1*3.9*1.3mm

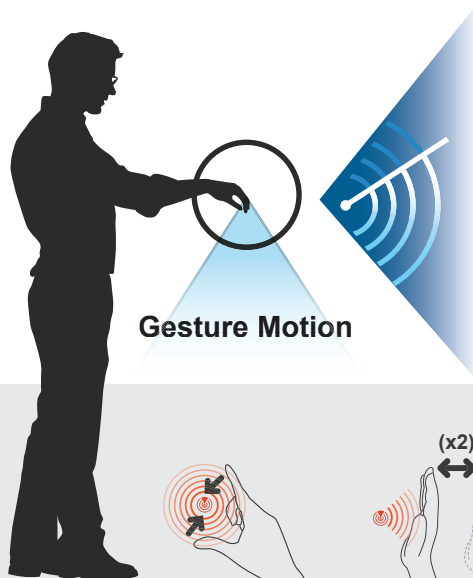
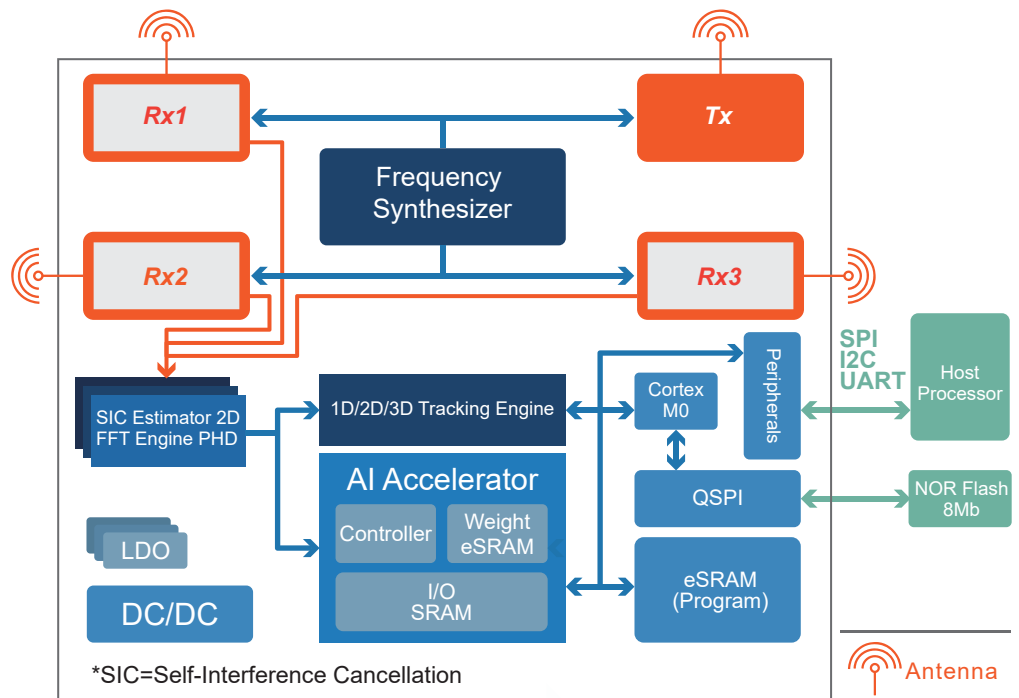
Gesture Control Feature

- Application distance 1 ~ 30cm
- FOV +/- 30° 3dB beamwidth
- Gesture Recognition (accuracy > 95%)
- Object tracking, support 1D to 3D tracking
- Support 6 pre-trained gesture classified
- Up to 10 sets customized gestures

Product Description

K60168 is a Hand Gesture Recognition SoC using 60GHz millimeter-wave Radar and AI accelerator. The SoC has 1 transmit antenna and 3 receive antennas which are integrated on top of a 6.1 x 3.9mm package. This SoC is also able to perform 1D, 2D, and 3D position tracking. As it stands, it can be used in smart phone, tablet, notebook, gaming console, TWS, etc. as Human-Interface device.

Block Diagram



Application Scenario

