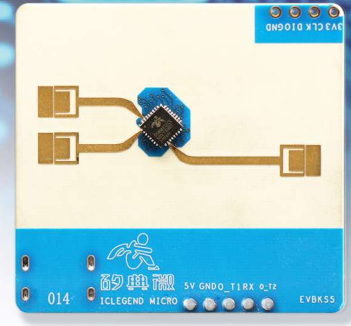


# ONE Lab Development Kit

## EVBKS5

Incorporate S5 series SoC, 1T2R antenna, and Cortex-M4 MCU

Compute and output the range, angle, speed, and moving direction of the detected target with wide bandwidth antennas and FMCW. Provide a quick way to evaluate the chip performance, easy to develop customized algorithms, applicable to various applications.



Specifications	
Sweeping Bandwidth	Max. 1 GHz (adjustable)
Equivalent omnidirectional radiated power	Max. 16.8 dBm (adjustable)
Operating Frequency	24 ~ 25 GHz (adjustable)
Operating Voltage	5 V
Sensor SoC	ICL1122 (1T2R)
Hardware Size	43 mm x 41 mm
Detection Angle	115 ° x 114 °
IAP function	Upgradable

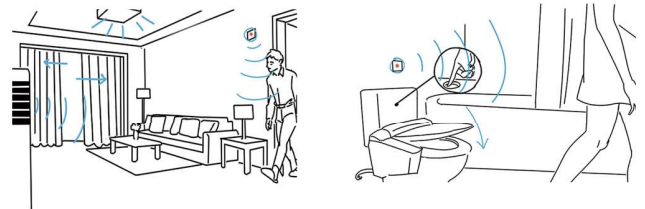
**Highly integrated**  
1T2R mmWave sensor SoC

**Comprehensive functions**  
Provide a complete chip-evaluation system

**Minimalist design**  
Friendly GUI and development platform

**Flexibly configurable**  
Provide easy-to-use system configurations for function tests

- ### Features
- Built-in 24 GHz 1T2R wide bandwidth micro-strip antennas
  - Support UART/ USB Type-C communication
  - Max. transfer rate 34 Mbps
  - Support debugging and programming via SWD
  - Support two ways of power supply



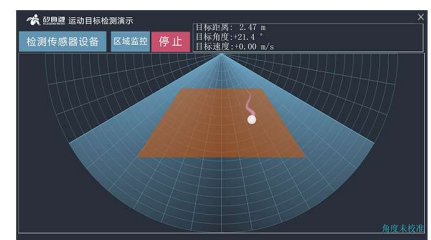
Human Presence Detection    Moving Target Detection



Human Presence Detection Tool



Register Configuration Tool



Moving Target Detection Tool

