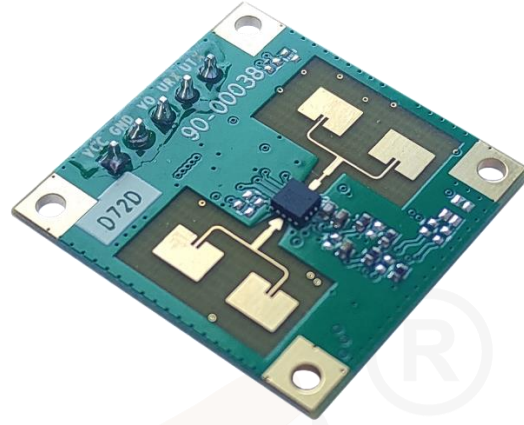
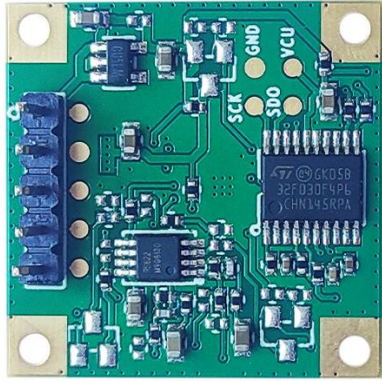




# HLK-LD1115H-24G

## Wave Human Presence Detection Radar Module



24GHz millimeter wave radar sensor PIR motion monitoring module LD116 small size, low power consumption, wide detection

### Description:

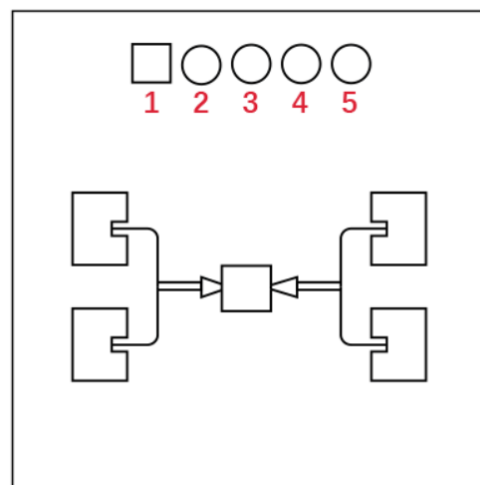
HLK-LD1115H is a high sensitivity 24GHz millimeter wave human presence detection radar module. The main feature of this module is that on the basis of the function of the traditional human body induction radar, it also has the function of judging the existence of the human body by detecting and accumulating small movements such as human breathing. Therefore, the presence detection within a certain range has higher accuracy and is not easy to miss.

### Specifications:

- Frequency: 24G-24.5GHz
- Modulation method: CW
- Detection distance: > 4m static human presence detection, > 16m motion detection
- Range: hanging height 3m, static body detection coverage radius 2m, mobile detection radius > 5m
- Power supply: 3.6-5V
- Current: 70mA
- Output serial level: 3.3V

- Detection cycle: adaptive
- Antenna half power angle: horizontal  $\pm 57^\circ$ , vertical  $\pm 24^\circ$  (see the figure below for the definition of antenna horizontal/vertical direction)
- Data format: Serial port ASCII output/high and low level
- Start-up time: about 15 seconds
- Small size: 22.95mm $\times$ 20mm

### Pin configuration:



Pin 1: VCC – 5V Power supply

Pin 2: GND – Ground

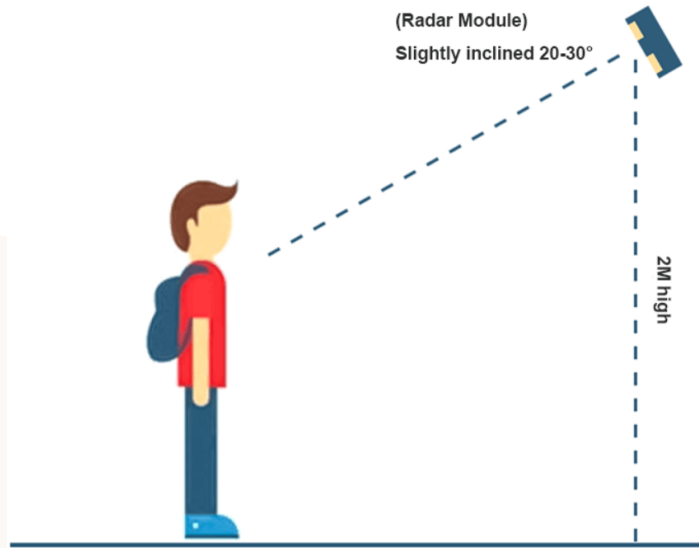
Pin 3: Vo – Sensor output (Optional)

Pin 4: URX – TTL Serial receive

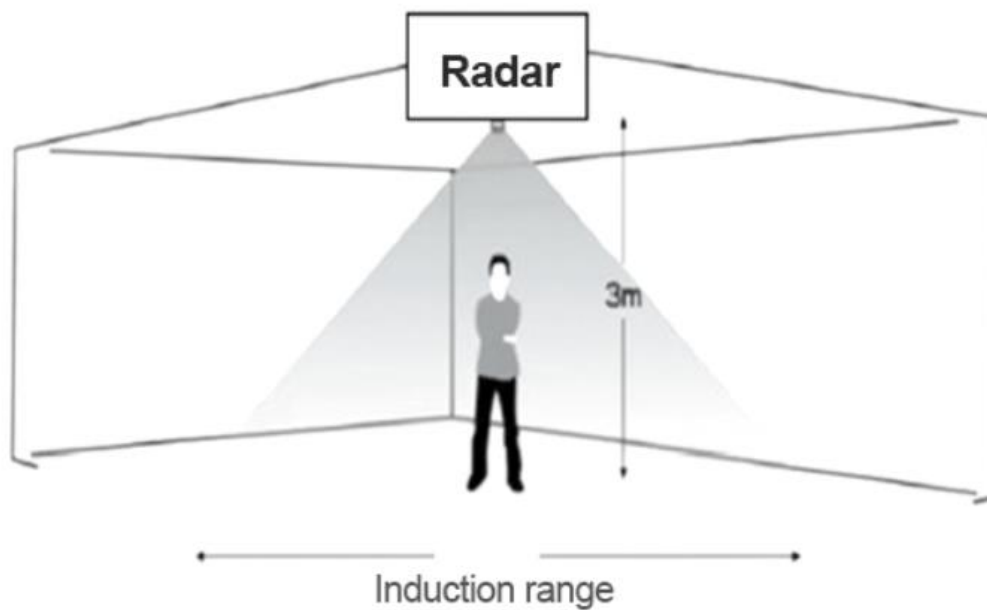
Pin 5: UTX – TTL Serial send

## Sensing range:

- Wall mounted linear test



- Hanging height vertical test



**Applications:**

- Security devices
- Smart home automation
- Industrial appliances

