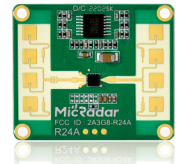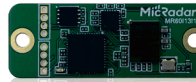# MicRadar

TV Application

24GHz 1T1R Human Presence & Ranging Radar Solution Microstrip Antenna
Radar Output [Distance of] [Occupied/Unoccupied] [Active/Static]

- **Energy Saving**
  Screen-off when it is unoccupied in detecting area, shut off when it is unoccupied for long time
- **Picture & Sound Quality Adjustment**
  Adjust the picture and sound quality according to distance from the person to the TV
- **Children's Vision Protection**
  Notification reminds the guardian to check if childern is too close to TV

24GHz 2T2R Human Presence & Ranging Radar Solution Microstrip Antenna
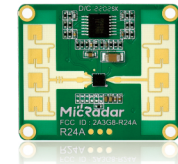Radar Output [Distance of] [Occupied/Unoccupied] [Active/Static]

- **Energy Saving**
  Screen-off when it is unoccupied in detecting area, shut off when it is unoccupied for long time
- **Picture & Sound Quality Adjustment**
  Adjust the picture and sound quality according to distance from the person to the TV
- **Screensaver Wallpaper**
  Adding samulated sound and animation effects into screensaver wallpapers when someone is approaching

60GHz 1T3R Human Presence & Trajectroy Tracking Radar Solution Antenna Onboard
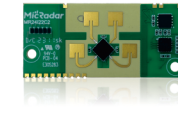Radar Output [Distance of] [Occupied/Unoccupied] [Active/Static]

- **Energy Saving**
  Screen-off when it is unoccupied in detecting area, shut off when it is unoccupied for long time
- **Best Viewing Location**
  Stereo sound following and picture quality adaption according to orientation of human body
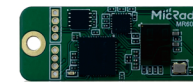
Air Conditioner Application

24GHz 1T1R Human Presence & Ranging Radar Solution Microstrip Antenna
Radar Output [Orientation and Angle] [Occupied/Unoccupied] [Posture of double tap] [Active/Static]

- **Energy Saving**
  Screen-off when it is unoccupied in detecting area, shut off when it is unoccupied for long time
- **Gesture Control**
  Gesture of double tap to power on/off the device
- **Air Volumn Adjustment**
  Adjust air volumn when human body is approaching, and adjust direction of wind to avoid wind blowing to people directly

24GHz 1T4R Human Presence & Trajectory Tracking & Sleep Monitoring Radar Solution Microstrip Antenna
Radar Output [Orientation and Angle] [Occupied/Unoccupied] [Sleep Stage] [Active/Static]
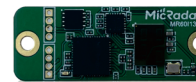
- **Energy Saving**
  Screen-off when it is unoccupied in detecting area, shut off when it is unoccupied for long time
- **Wind Following & Wind Avoiding**
  Adjust direction of wind to follow human body or avoid wind blowing to people directly
- **Wind Volumn Adjustment**
  Adjust wind volumn according to number of people
- **Sleep Cycle Temperature**
  Adjust temperature during three sleep stages including falling asleep, deep asleep and awake to increase sleep quality
- **Sleep Report**
  Generate a sleep report according to heartbeat, breath and body motion parameters

60GHz 1T3R Human Presence & Trajectory Tracking & Sleep Monitoring Radar Solution Antenna Onboard
Radar Output [Orientation and Angle] [Occupied/Unoccupied] [Sleep Stage] [Active/Static]

- **Energy Saving**
  Screen-off when it is unoccupied in detecting area, shut off when it is unoccupied for long time
- **Sleep Cycle Temperature**
  Adjust temperature during three sleep stages including falling asleep, deep asleep and awake to increase sleep quality
- **Sleep Companion**
  Generate a sleep report according to heartbeat, breath and body motion parameters

Washing Machine

60GHz 1T3R Human Presence & Trajectory Tracking & Gesture Recognition Antenna Onboard
Radar Output [Orientation and Angle] [Occupied/Unoccupied] [Gestures Recognition] [Active/Static]

- Screen on when somebody is approaching
- **Gesture Conrol to Switch Mode**
  Swipe left and right or slap up and down gestures in a short range to switch laundry mode

Audio Equipment Application

24GHz 2T2R Human Presence & Ranging Radar Solution Microstrip Antenna
Radar Output [Orientation and Angle] [Occupied/Unoccupied] [Active/Static]

- **Sound Following**
  The sound plays along with user according to orientation of human body to reduce the interference to others
- **Echo Collection**
  Accurately collect voice command according to user's angle to improve voice control accuracy

Central Control Pannel

24GHz 2T2R Human Presence & Ranging Radar Solution Microstrip Antenna
Radar Output [Orientation and Angle] [Occupied/Unoccupied] [Gestures Recognition] [Active/Static]

- Screen on when somebody is approaching
- **Gesture Conrol to Switch Mode**
  Power on/off with double tap gestures in a short range

Refrigerator Application

60GHz 1T3R Human Presence & Trajectory Tracking & Gesture Recognition Antenna Onboard
Radar Output [Orientation and Angle] [Occupied/Unoccupied] [Gestures Recognition] [Active/Static]

- Screen on when somebody is approaching to the refrigerator
- Gesture conrol to open/close the door
- **Anti-collision Application**
  Automatically control the distance of the push-pull cabinet of refrigerator according to distance between user and refrigerator detecting by radar

Flush Toilet Application

60GHz 1T3R Human Presence & Trajectory Tracking & Gesture Recognition Antenna Onboard
Radar Output [Orientation and Angle] [Occupied/Unoccupied] [Gestures Recognition] [Active/Static]

- **Open Toilet Lid Automatically**
  Automatically open/close the toilet lid according to user's approaching distance or left and right gesture recognition