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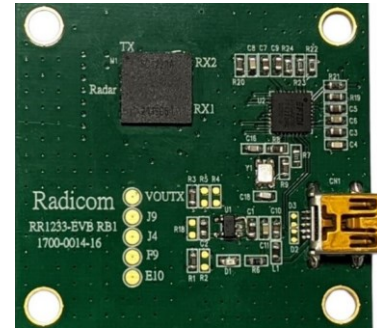
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<http://www.radi.com/>**Motion Detection Low Power 24 GHz Radar Sensor USB Module– RR1233U****USB Interface Support**

Radicom's **RR1233U** 24GHz low power & distance sensing radar module is designed with antenna offering 360-degree directional range motion detection that supporting different application requirements. It applies the USB to SPI converter interface connecting to radar module with simple connectivity to complete software development environment.

The **RR1233U** hosts with MCU connection through SPI interface for simple setting and data acquisition that goes with multi sensing modes such as motion detecting, distance detecting and angel detection for your wider area range coverage of detection options.

It as well as features easy installation without making any holes and can just right simply install this module on your terminal application device easily and quickly.

**RR1233U****Application:**

- Outdoor lighting
- Home Appliance
- Smart Speaker
- Tablet/PC
- Tab Water Sensing
- Smart Home
- IoT Internet of Thing
- Door Bell
- Cockpit/IVI

Features:

- Interface: SPI, USB
- ID Friendly
- Tx/Rx Channel:1-Tx/2-Rx
- FOV: x-y:120°/y-z: 110°
- Power Consumption: Peak 160mW (@1D) Avg.0.6mW
- Tx EIRP (typ):4.0 dBm
- Detection Mode: Distance 2D Detection
Azimuth angle 2D Detection
Motion Detection

- Size: 4.5cm (L)*4.3cm(W)*1.6cm(D)
- Intelligent Sequencer to control sensor mode & duty cycle
- Built-in autonomous 1D sensing algorithm without any external MCU calculations
- Up to 8m, 120° FOV(*1*2)/avg 0.5mW-suitable for battery operation
- Host MCU connection via 12C or SPI for setting & result acquisition
- All-IN-ONE & easy to detect Presence/Distance+2D Location
- Advanced 'RF-CMOS' Technology with intelligent sensing engine
- FCC/IC/CE, TELEC, KC, SRRC, CB, NCC, AS/NZS etc.
- RoHS compliant

Support:

- Wider detection area, Lower Power, Small-sized Package
- Integration: Antenna, RF, ADC, Digital F/E & SP, I/O
- Multiple sensing modes from 1D to 2D
- Robust Performance
- Bandwidth: up to 180MHz