

seed studio

INDUSTRIAL PRODUCT DATASHEET

# 24Ghz mmwave Human Static Presence Sensor for Seeed Studio XIAO

24GHz mmWave Sensor for XIAO - Human Static Presence is a expansion board for Seeed Studio XIAO series.

SKU

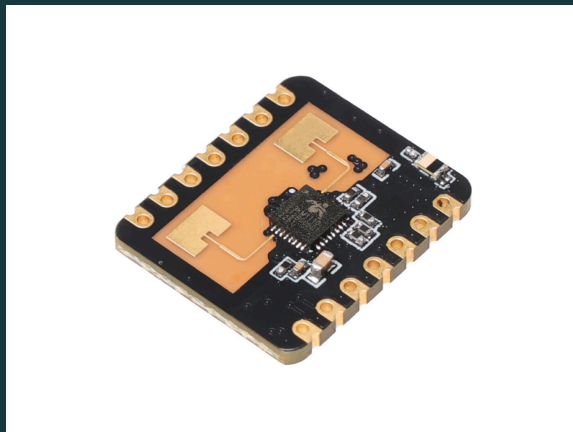
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UPDATED

2026-04-15 07:06:42

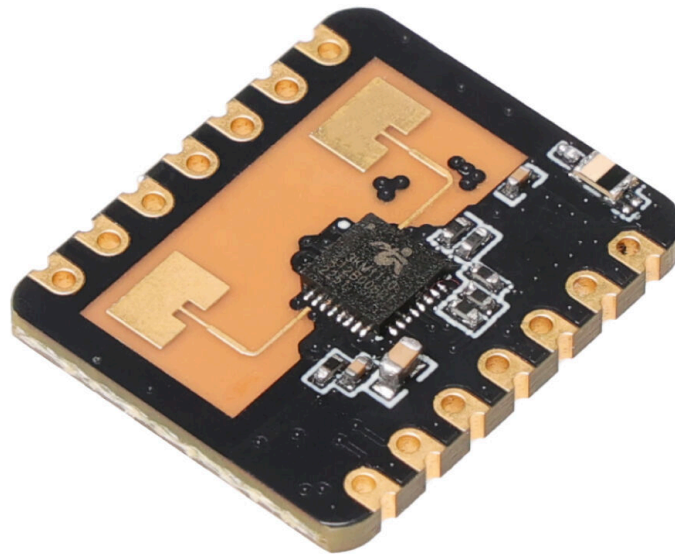
PRICE

\$4.49(Excl. VAT)



# Overview

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24GHz mmWave Sensor for XIAO - Human Static Presence is a expansion board for Seeed Studio XIAO series. It is an antenna-integrated, high-sensitivity mmwave radar sensor that is based on the FMCW principle. Combined with radar signal processing and accurate human body sensing algorithms, it can identify human bodies in motion and stationary states.

# Key Features

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## 01 Based on the FMCW principle

highly sensitive and immune to environmental interferences

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## 02 Comprehensive Human Body Detection

The sensor not only detects moving human bodies with high sensitivity but also exhibits sensitivity to static individuals, micro-movements, as well as individuals in sitting or lying positions.

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## 03 Multi-Level Intelligent Parameter Adjustment

Adjusted using Bluetooth or a serial port, providing flexibility to meet varying environmental conditions and scene changes. Additionally, it supports direct parameter configuration through an app, eliminating the need for a serial port connection.

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## 04 Wide Detection Angle and Long Sensing Distance

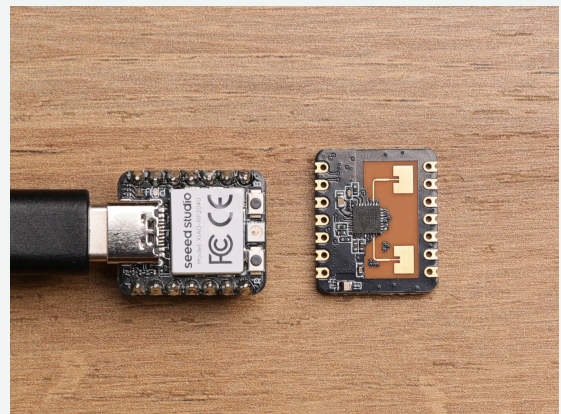
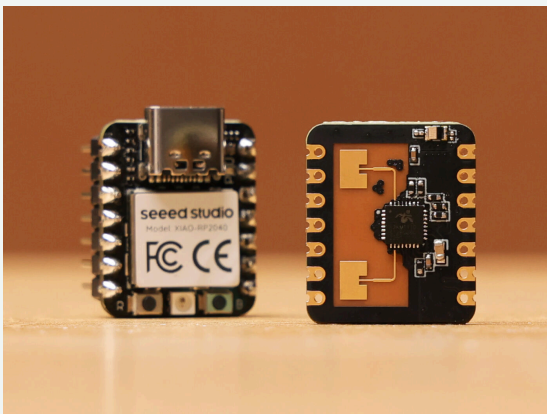
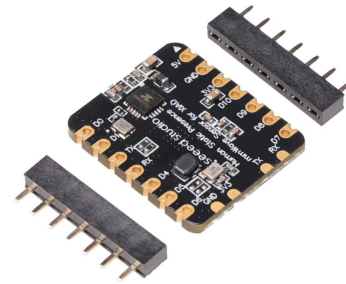
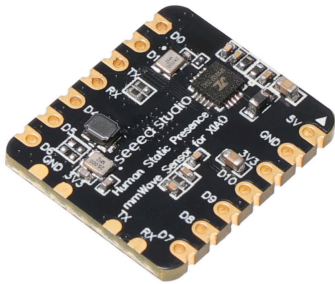
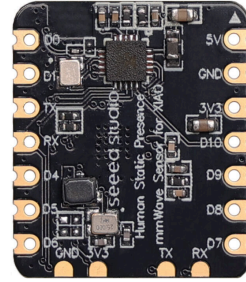
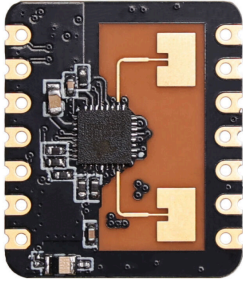
With a field of vision of up to 60 degrees, the sensor can detect movement from a wide angle. Furthermore, it can detect things up to 5 meters away.

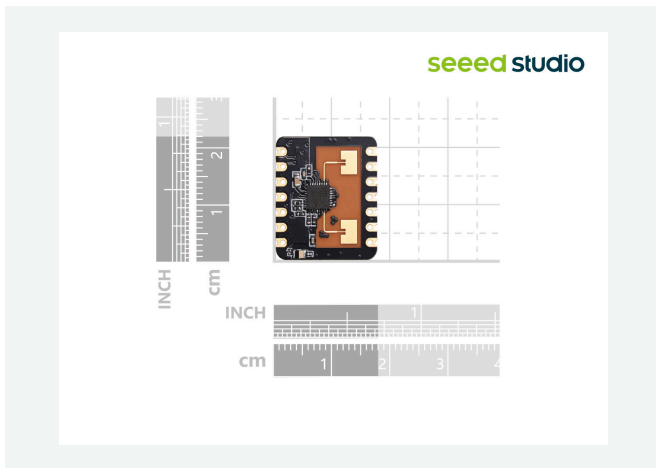
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## 05 Excellent Shell Penetration and Aesthetics Enhancement

Has good shell penetration, allowing it to work discreetly inside the product's casing without the need for surface perforations.

# Product Gallery

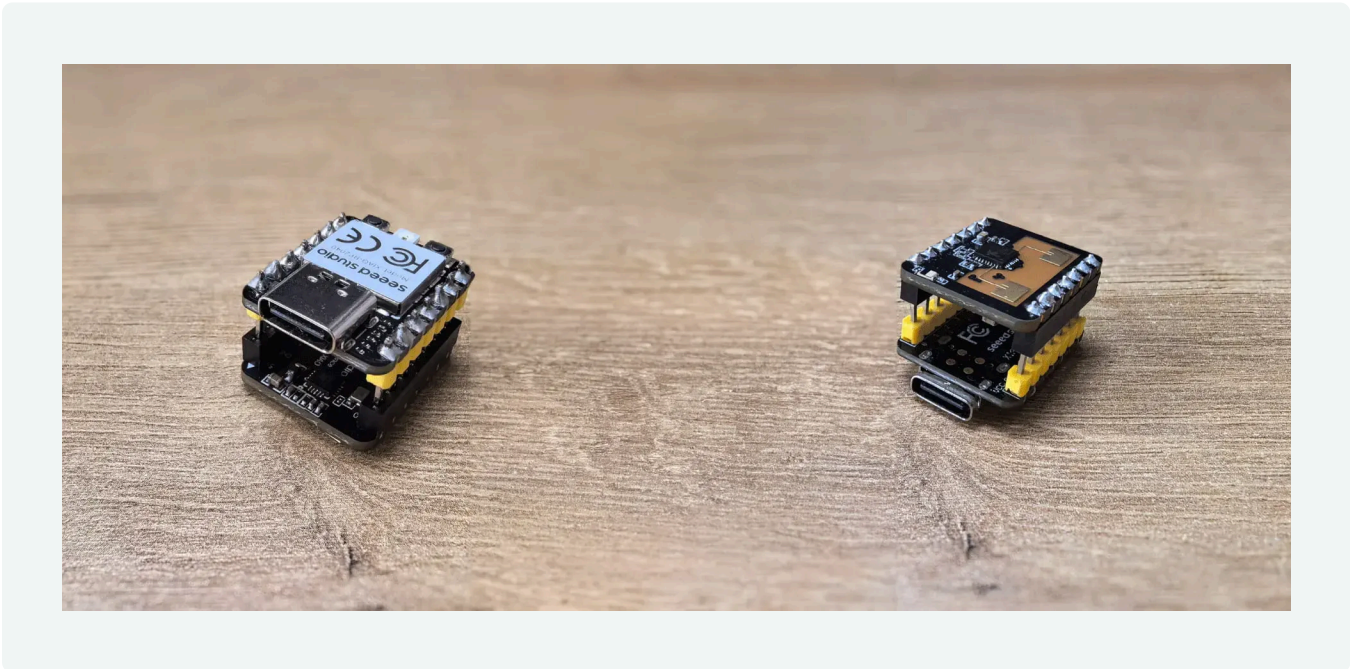
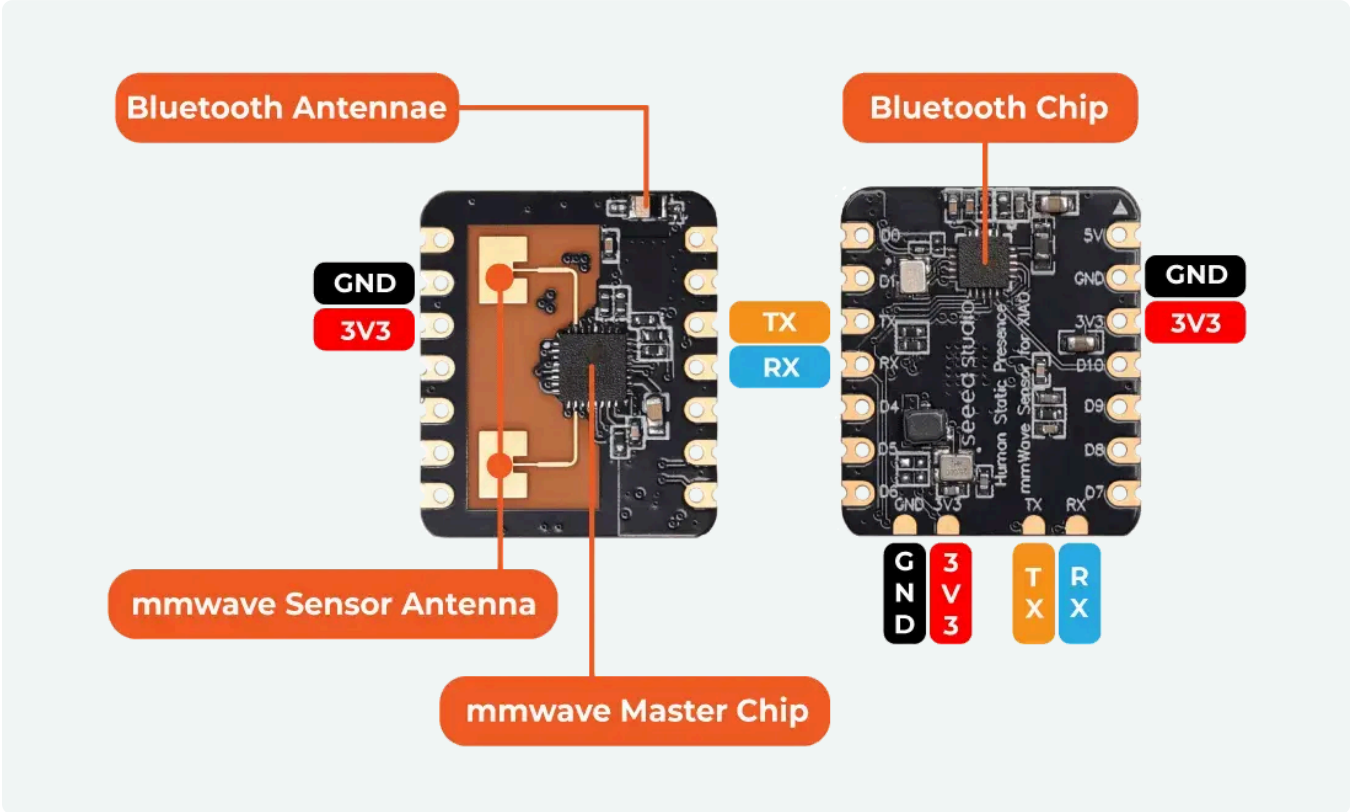




## Specification

Parameter	Value
Operating Frequency	24GHz~24.25GHz
Operating Voltage	DC 3.3V
Power Supply Capacity	>200mA
Average Operating Current	79 mA
Modulation	FMCW
Target Application	Human presence sensor
Detection Distance	0.75m ~ 6m (adjustable)
Detection Angle	±60°
Distance Resolution	0.75m
Sweep Bandwidth	250MHz
Ambient Temperature	-40°C ~ 85°C
Dimensions	18mm x 22mm

# Hardware Overview



# Part List

24GHz mmWave Sensor for XIAO - Human Static Presence	x1
7-pin female header	x2

# Compliance & Logistics

HSCODE	8526109090
USHSCODE	8526100040
EUHSCODE	8471707000
COO	CHINA

CertificationInfo	links
ROHS	<a href="#">ROHS_link</a>

Logistics	Value
ECCN	EAR99
HSCODE	8526109090
USHSCODE	8526100040
EUHSCODE	8471707000
COO	CHINA

# Resource Links

- <https://www.seeedstudio.com/Seeed-Studio-XIAO-24Ghz-mmwave-Human-Static-Presence-Module-p-6266.html>
- [24GHz mmWave for XIAO Datasheet-V1.00](#)
- [24GHz mmWave for XIAO User Protocol Manual](#)
- [24GHz mmWave for XIAO SCH](#)
- [HLKRadarTool](#)

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