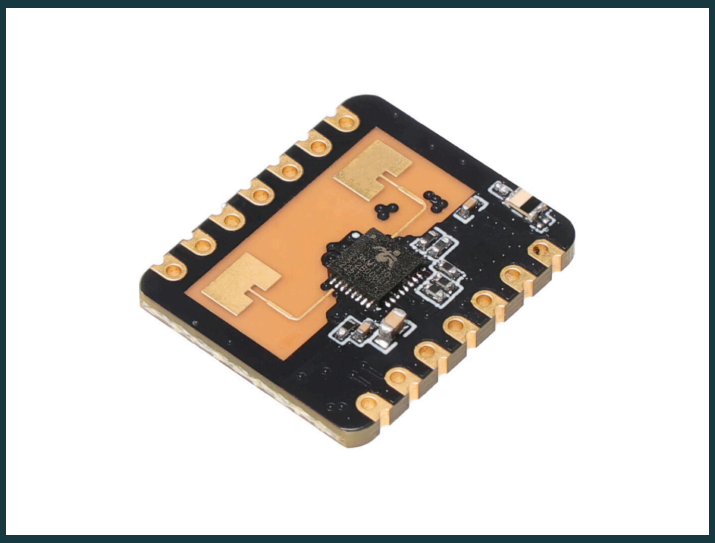
seeed studio

INDUSTRIAL PRODUCT DATASHEET

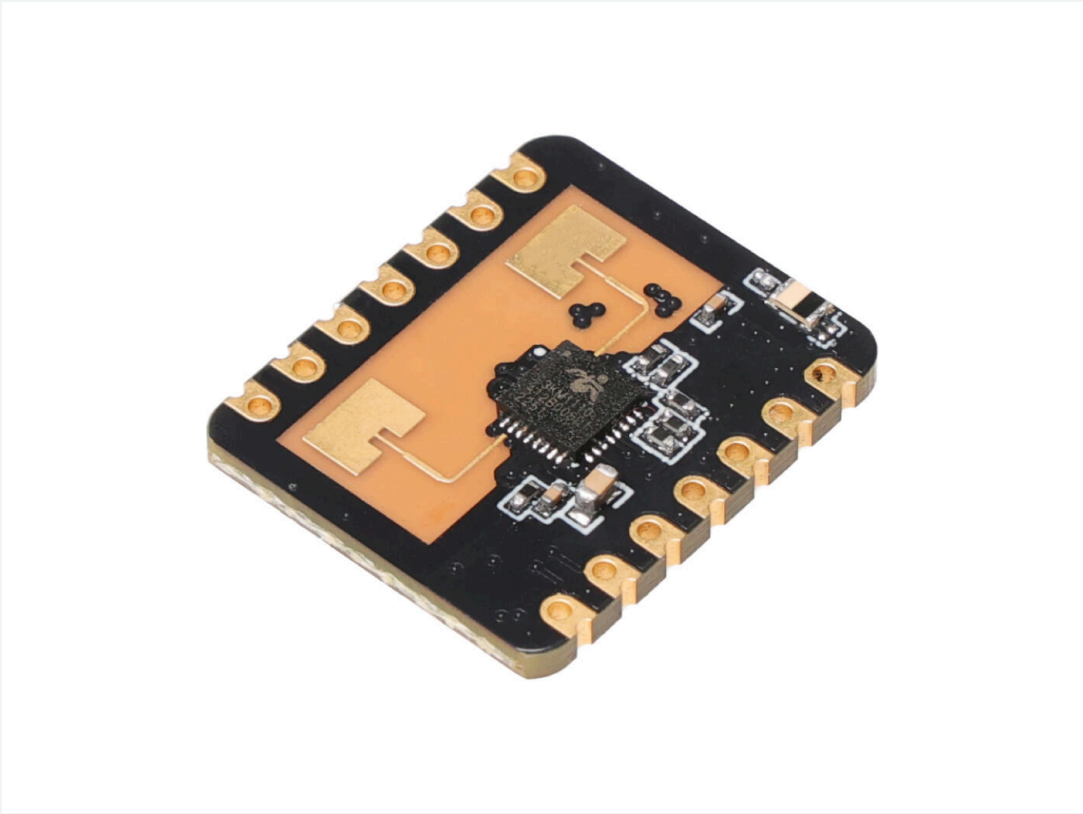
24Ghz mmwave Human Static Presence Sensor for Seeed Studio XIAO

The 24GHz mmWave Human Static Presence Sensor for Seeed Studio XIAO detects static and moving humans up to 5m with a 60° field, app-based configuration, and discreet casing integration; hardware-compatible, official...

SKU	UPDATED	PRICE
101010001	2026-08-05 05:51:41	$4.90(Excl. VAT)



Overview



Based on FMCW principle, the sensor detects static, moving, sitting, and lying humans with high sensitivity and interference immunity, covering a 60° field up to 5 meters. It provides multi-level parameter adjustment via Bluetooth or app, features excellent shell penetration for discreet installation, and is hardware-compatible with Seeed Studio XIAO (official Arduino software support for nRF54L15 series is under development).

Key Features

Note:

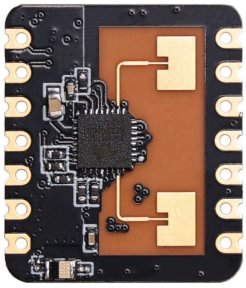
This expansion board is currently not directly compatible with the XIAO nRF54L15 series because Arduino is not supported.

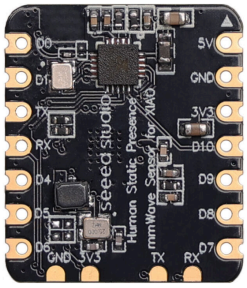
However, the hardware interface is fully compatible, and developers can manually adapt the software if needed.

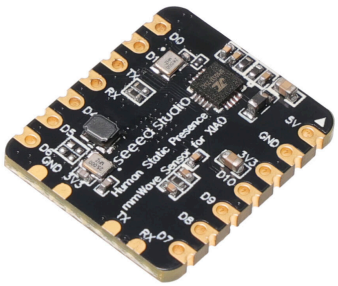
Official software support from Seeed Studio is under development — stay tuned for updates!

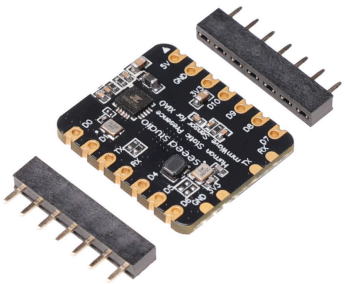
- **Based on the FMCW principle:** highly sensitive and immune to environmental interferences
- **Comprehensive Human Body Detection:** The sensor not only detects moving human bodies with high sensitivity but also exhibits sensitivity to static individuals, micro-movements, as well as individuals in sitting or lying positions.
- **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.
- **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.
- **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.

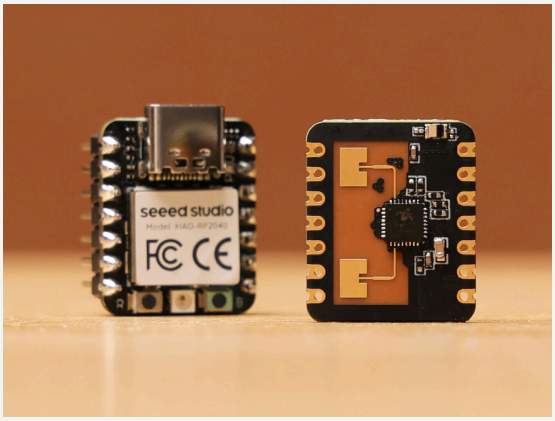
Product Gallery

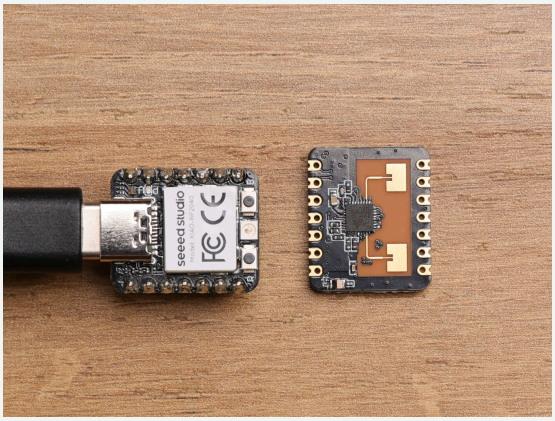


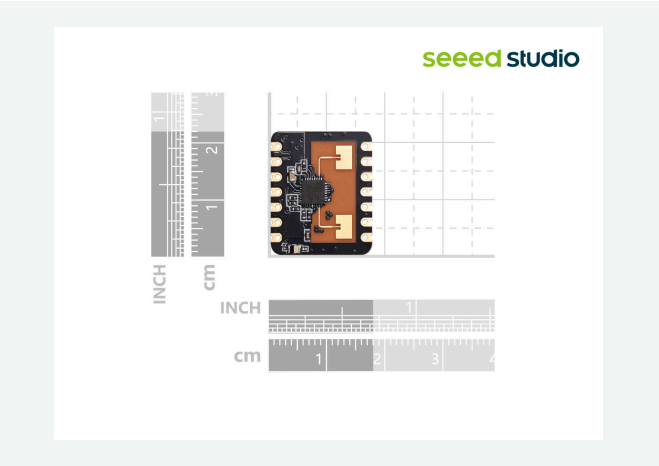








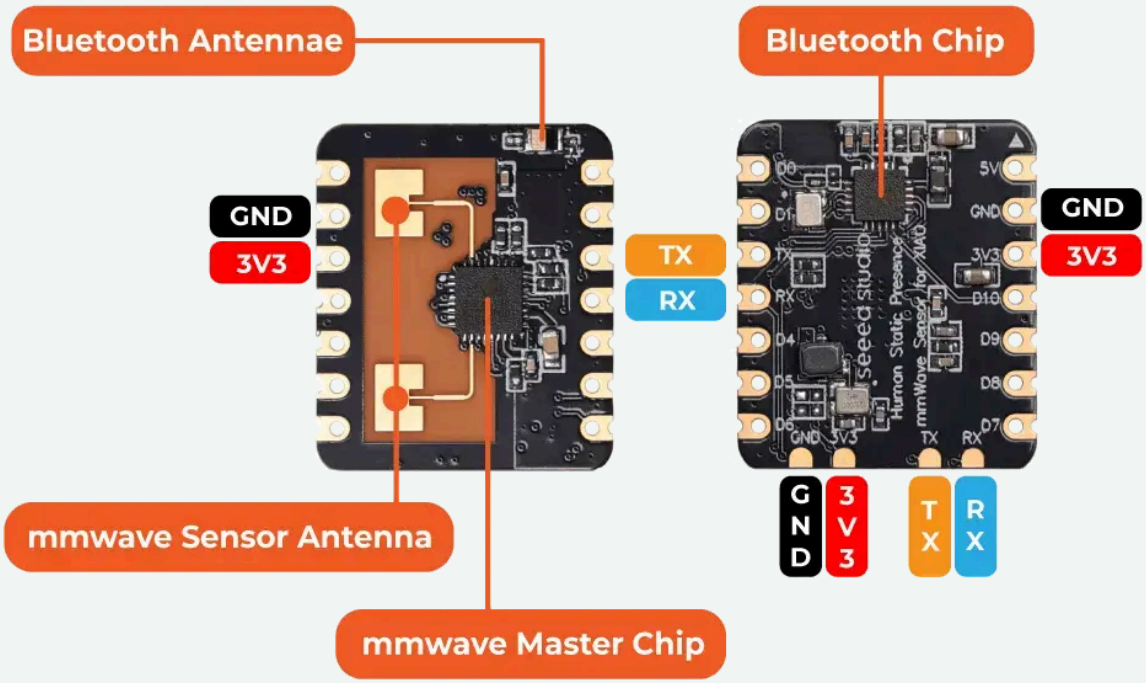


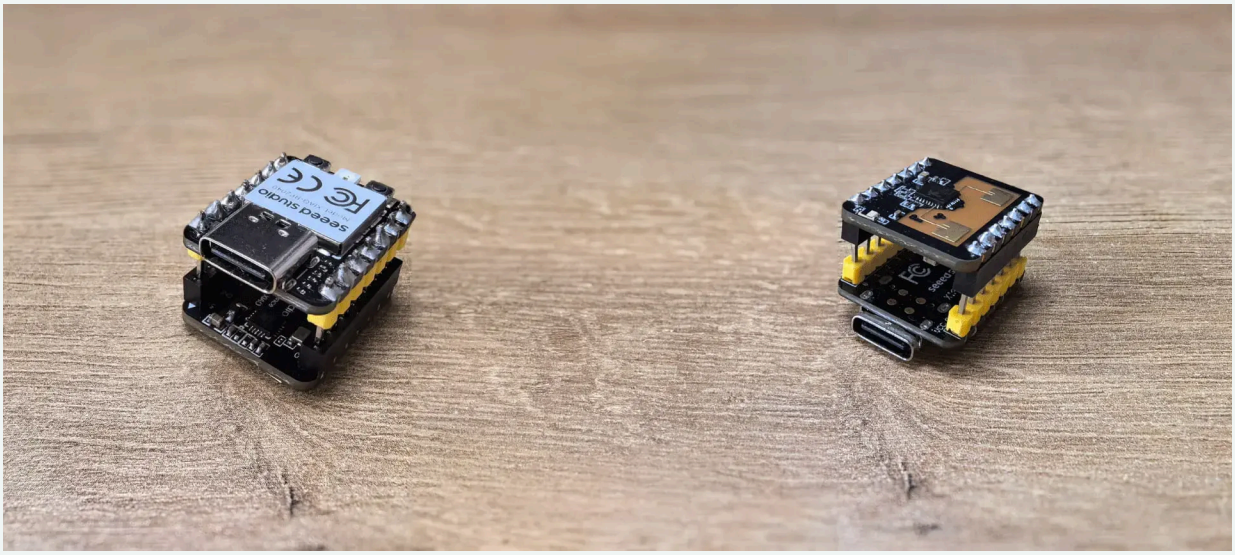


Specification

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
UPC	
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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