

Product Model Difference Declaration

Declared Models:

- XIAO nRF54LM20A
- XIAO nRF54LM20A Sense

Description of Differences:

Compared to the XIAO nRF54LM20A, the XIAO nRF54LM20A Sense adds the following components:

1. Digital Microphone

- Specification: SMD omnidirectional microphone, -26dBFS, LGA-6 package, dimensions 4×2×1.1mm

2. 6-Axis Acceleration Sensor (IMU)

- Specification: SMD 6-axis acceleration sensor, LGA-14L package, dimensions 2.5×3×0.83mm

Other than the above additions, the two models are **identical** in the following aspects:

- Main chip (nRF54L series)
- Circuit design (except for the added components noted above)
- Interface definition and pin assignment
- Outer dimensions and PCB layout
- Operating voltage and operating temperature range
- Software compatibility (The Sense version can run software designed for the base model; additional functions require corresponding drivers)

Conclusion:

The XIAO nRF54LM20A Sense is an enhanced model based on the XIAO nRF54LM20A with the addition of a microphone and an IMU. All other hardware and electrical characteristics remain the same as those of the base model.