

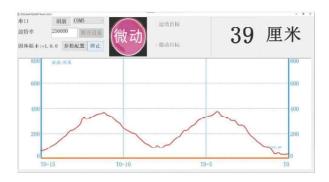
XenP102RM

High-Precision Presence and Range Detection mmWave Sensor

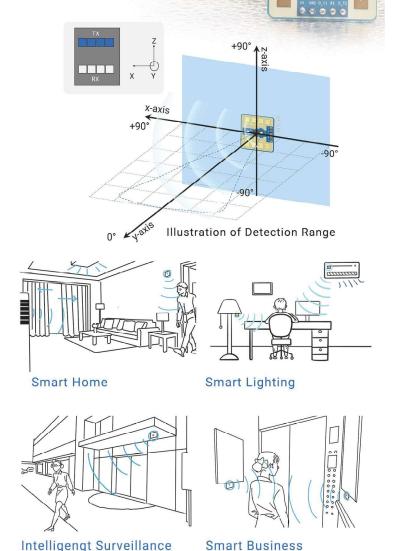
- · High-precision Range Measurement: Real-time cm-level ranging accuracy
- · Flexibly Configurable: Configurable micro-motion/motion detection for various scenario
- · Wide-range Detection: Accurate human range measurement up to 6 m
- · Convenient Installation: Support low-effort wall-mounted installation

| Specifactions | |
|---------------------|---------------------------|
| Detection Range | 0.3 m ~ 6 m |
| Range Accuracy | ± 3 cm |
| Operating Frequency | 24 ~ 24.25 GHz, |
| | in accordance with FCC/CE |
| Operating Voltage | 5 V |
| Operating Current | 48 mA |
| Sensor SoC | S3 series (1T1R) |
| Hardware Size | 28 mm x 24 mm |
| Field of View | 80° x 40° |
| Interface | UART, GPIO |
| | |

High-precision human detection and range measurement using FMCW radar SoC and high gain antennas. Incorporated with signal processing algorithm, report real-time accurate human distance. Support human micro-motion/motion detection, independent detection area configuration, and resist the interference outside of the detection range.



Human Detection and Range Measurement Visualization Tool



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ICLEGEND MICRO is committed to implementing smart RF technology and developing high-performance wireless SoC. Our products have been widely used in the wireless field such as millimeter wave sensors, next generation mobile communication, and satellite communication. Integrating our professional capabilities in the fields of chip systems, software, and algorithms, we are creating disruptive chips and application products, and empowering smart devices wireless perception, cognition and communication capabilities.

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