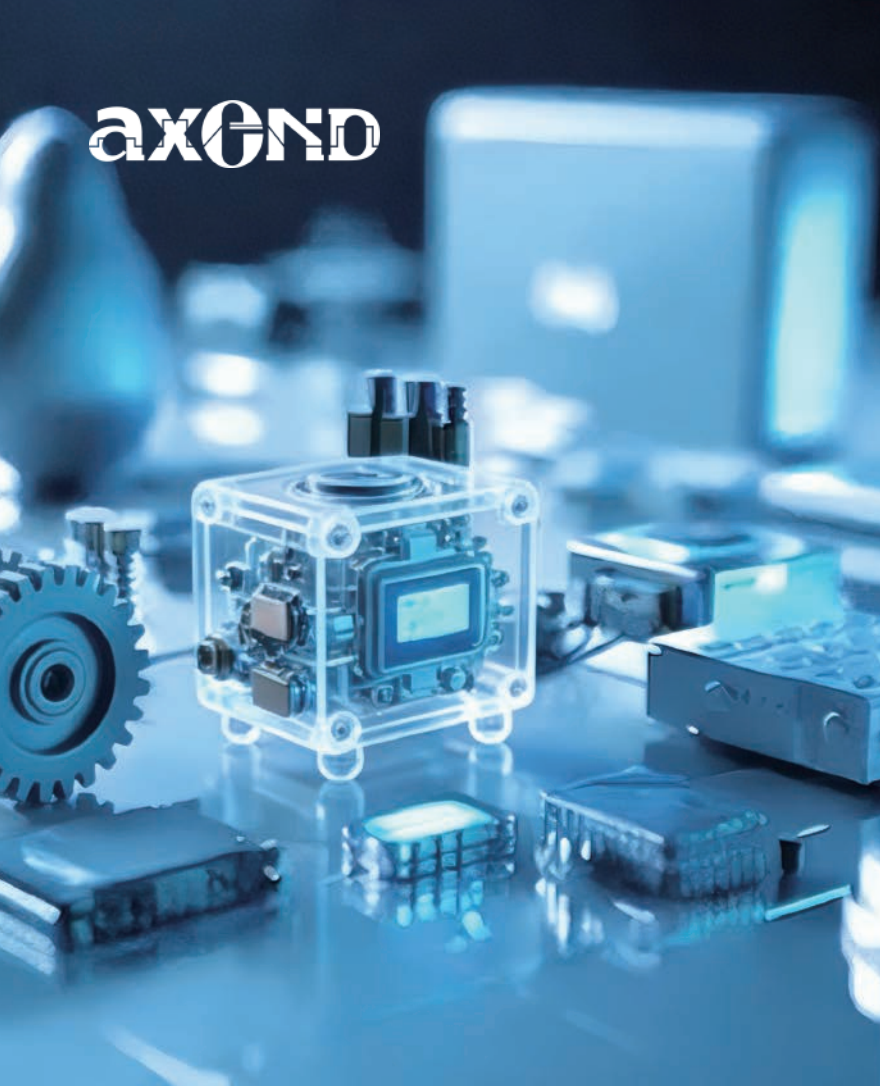




mmWAVE RADAR MODULES FOR SMART HOME

Our series of 24GHz and 60GHz mmWave radar modules are designed for presence detection and tracking with no cameras to intrude on privacy. By adopting FMCW millimeter-wave radar technology and advanced algorithms, these compactly designed sensors behave excellently in smart home IoT applications, not only when used as sensors, but also capable of being integrated into other electronic devices to provide extra capabilities that cannot be achieved by any other current technologies. For the developers, these radar sensors can generate precise and sensitive motion information as well as performance data calculated using machine learning which in turn guarantees for higher system stability as well as much better user experience.

- AMBIENT SENSING
- WIDER COVERAGE
- HIGHER ACCURACY



Machine learning



Detection range of up to 7m



Up to 180° coverage



Moving and stationary tracking with position and trajectory



Simultaneous tracking of up to 10 targets



Adjustable coverage



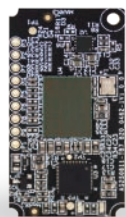
Immune to environment at conditons



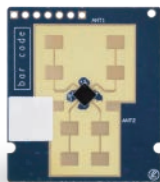
No camera to intrude privacy

PRESENCE DETECTION

PRODUCT COMPARISON



AM60MP1



AM24MP-A



AM24MP2-M

Modulation mode	FMCW	FMCW	FMCW
Transmit frequency	60GHz	24GHz	24GHz
Radar channels	4TX / 4RX	2TX / 2RX	1TX / 2RX *2
Detection range	8.0 (m) / 26.25 (ft)	3.0 (m) / 9.84 (ft) (stationary) 6.0 (m) / 19.69 (ft) (minor movement) 8.0 (m) / 26.25 (ft) (moving)	4.0 (m) / 13.12 (ft) (stationary) 5.0 (m) / 16.4 (ft) (minor movement) 7.0 (m) / 22.97 (ft) (moving)
FOV (horizontal)	-60°~60°	-55°~55°	-85°~85°
FOV (vertical)	-60°~60°	-30°~30°	-30°~30°
Communication interface	UART	UART	UART
Powered by	DC 5V / 0.5A	DC 5V / 0.5A	DC 5V / 0.5A
Power consumption	≤0.15W	0.95W	1.1W
Dimensions (L*W)	40.6*22 (mm) / 1.6 *0.9 (in)	35*40 (mm) / 1.4*1.6 (in)	66*55 (mm) / 2.6*2.2 (in)