



MMWAVE RADAR MODULES FOR SMART SECURITY

Our series of 24GHz and 60GHz mmWave radar modules are designed for presence detection and tracking with no cameras to intrude on privacy, both indoors and outdoors. By adopting FMCW millimeter-wave radar technology and advanced algorithms, these compactly designed sensors behave excellently in smart security applications such as locks, cameras, motion sensors, and so on. When integrated into other electronic devices, it provides 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

 **Ultra low power consumption**

 **Machine learning**

 **Detection range of up to 7m**

 **Up to 180° coverage**

 **Moving and stationary tracking with position and trajectory**

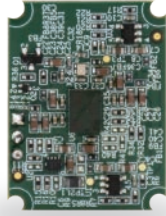
 **Simultaneous tracking of up to 10 targets**

 **Adjustable coverage**

 **Immune to environment at conditons**

PRESENCE DETECTION

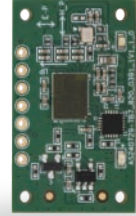
PRODUCT COMPARISON



AM60MPL1



AM60LOD1-MS



ASX01/SW

Ultra - low power consumption	✓	-	-
Modulation mode	FMCW	FMCW	FMCW
Transmit frequency	60GHz	60GHz	60GHz
Radar channels	1TX / 3RX	3TX / 4RX	1TX / 3RX
Detection range	6.0 (m) / 19.69 (ft)	3.0 (m) / 9.84 (ft) (target motionless) 6.0 (m) / 19.69 (ft) (tracking)	Up to 2.1 (m) / 6.89 (ft) (customizable design)
FOV (horizontal)	-60°~60°	-60°~60°	-50°~50°
FOV (vertical)	-60°~60°	-15°~15°	-50°~50°
Communication interface	UART	UART / CAN	NPN/UART
Powered by	DC 3.3V / 0.2A	DC 5V / 0.5A	DC 5V~24V
Power consumption	≤0.3mW	1.35W	0.25W
Dimensions (L*W)	30*22 (mm) / 1.2*0.9 (in)	43.5*45 (mm) / 1.7*1.8 (in)	31.2*18.1 (mm) / 1.2*0.7 (in)