

FAST AND ROBUST GESTURE RECOGNITION WITH 60 GHZ RADAR SENSORS

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Hand gestures are an intuitive means of human communication. Gesture recognition enables powerful touch-free interactive interfaces for smart devices in use-cases ranging from smart home devices to IoT. Innatera's reference design relies on a 60 GHz Radar sensor to enable fast and robust always-on touch-free interaction capabilities for human-machine interfaces. The solution naturally preserves privacy since no visual images are captured. Innatera's neuromorphic AI brings breakthrough power-performance advantages to Radar sensing, compared to conventional tinyML solutions available in the industry.



Turn-key solution



Ultra low power



Any lighting condition



Custom gestures



Ultra low latency



Always on processing

KPI	Innatera	TinyML state of art	Improvement
Accuracy	97.5%	78%	~1.3x
Power	0.4 mW	21 mW	~50x
Latency	0.6 ms	>100 ms	~180x

