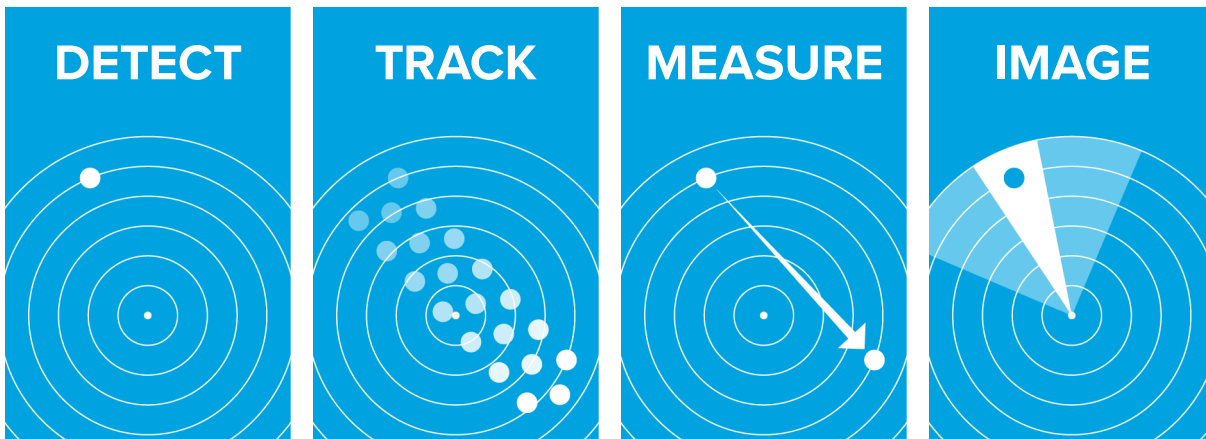


COMPACT SOFTWARE-DEFINED RADAR SENSOR

Affordable, high performance pulse-Doppler radar designed for integration into autonomous platforms, industrial systems, robotics, and advanced sensing applications.

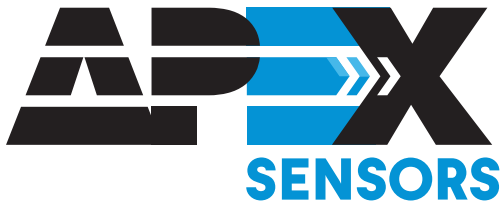


APEX Sensors is a compact software-defined radar sensor engineered to deliver high-performance detection, tracking, imaging, and motion measurement in demanding environments. Its scalable architecture, embedded processing, and open software framework enable rapid customization across commercial, industrial, research, and autonomous sensing applications.

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KEY BENEFITS

Software-Defined Architecture	Adapt capabilities through software updates
Compact SWaP-C	Small footprint for space-constrained platforms
Open System Interfaces	Simplifies integration into existing systems
Multi-Mode Radar	Supports multiple operational modes
High Performance Processing	Low-latency embedded computing
Production Ready	Designed for scalable manufacturing
Modular Architecture	Configurable for diverse customer requirements
High Reliability	Engineered for demanding operating environments

RADAR CAPABILITIES

Advance Detection

- Long-range object detection
- High sensitivity
- Wide dynamic range
- All-weather operation
- Day and night performance

Precision Tracking

- Multi-object tracking
- Target classification support
- Range and velocity estimation
- Stable target lock
- Adaptive tracking algorithms

Motion Measurement

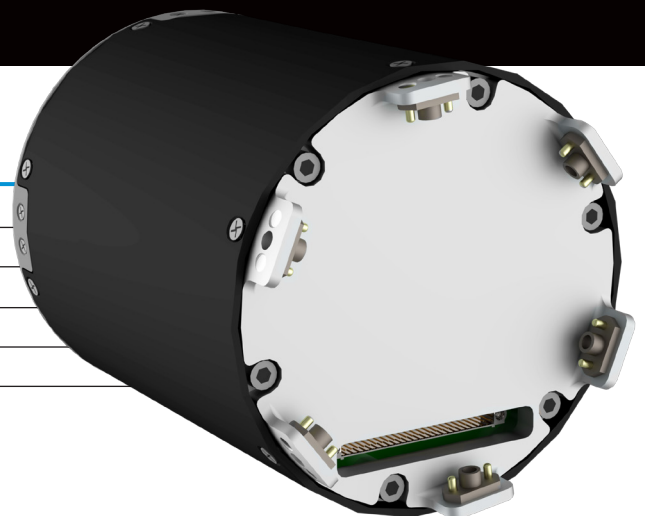
- Doppler processing
- Moving Target Indication (MTI)
- Velocity estimation
- Motion discrimination

High-Resolution Imaging

- Doppler Beam Sharpening (DBS)
- Enhanced target characterization
- Fine spatial resolution
- Digital image generation

SPECIFICATIONS

	APEX-5S*	APEX-5S+*	APEX-6S*
Platform Diameter	< 5.0"	< 5.0"	< 6.0"
Length	< 5.1"	< 5.5"	< 5.1"
Weight	< 4.0 lbs.	< 5.5 lbs.	< 6.0 lbs.
DC Power	300 W	400 W	500 W



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