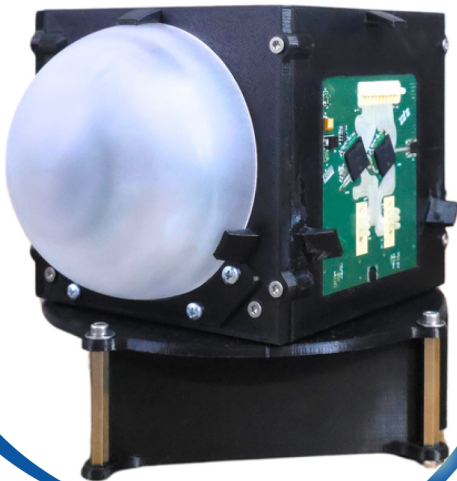


Range:	0.2m to 10m
Frequency Range:	57 GHz to 64 GHz
Maximum Bandwidth:	4 GHz
Radar Chipset:	Texas Instruments - IWR6243 (8x)
Virtual Array:	3 x 16 (Elevation x Azimuth)
Resolution (without SAR):	Azimuth: ~7°
Elevation:	~30°
Resolution (with SAR):	Azimuth: ~2.5°
Elevation:	~12°
Processing Unit:	Nvidia Jetson
External Interface:	Ethernet / EtherCAT (optional)

RADROB

360° FMCW Radar for Industrial Applications

Angular resolution
enables radar to
distinguish between
objects that are close
to each other



Supported by:



Federal Ministry
for Economic Affairs
and Climate Action

on the basis of a decision
by the German Bundestag

Features

- ✓ Internal radar raw data calibration and processing with Range-Doppler map generation, target filtering and angle estimation
- ✓ Neural processing unit of Jetson platform available for custom post-processing
- ✓ Algorithms for material determination based on holographic radar principle
- ✓ Tag recognition based on cheap PCB tags

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