



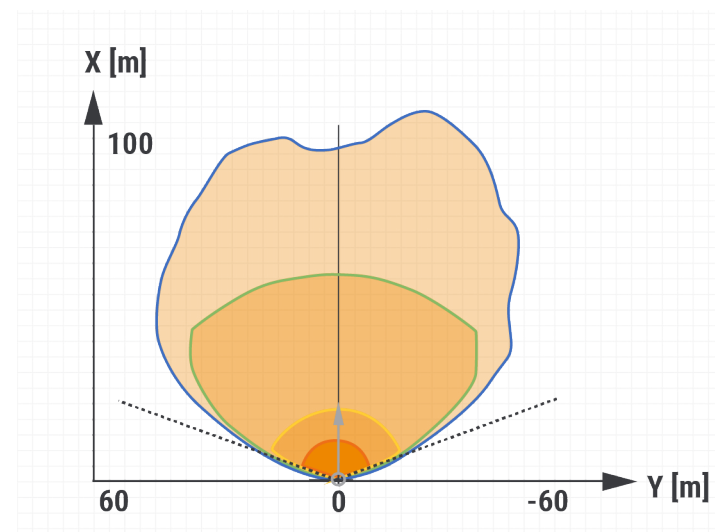
DRVEGRD[®] 169

SOFTWARE-DEFINED RADARS FOR SAFE MOBILITY



4D/PxHD
Corner Radar
Broad Field of View

- ✓ Designed for ADAS, autonomous and industrial applications
- ✓ Four operation modes: long-, medium-, short-, and ultra-short-range
- ✓ Field of View in Azimuth of -65...+65°
- ✓ Range interval of 0.1m to 130m
- ✓ 77...81GHz operating frequency



- Long-Range Mode (10m² Target)
- Medium-Range Mode (10m² Target)
- Short-Range Mode (10m² Target)
- Ultra-Short-Range Mode (10m² Target)
- Field Of View Limits

DRVEGRD® 169

PERFORMANCE

	Long-Range Mode	Medium-Range Mode	Short-Range Mode	Ultra-Short Range Mode
Operating Frequency	77...81 GHz 3 center frequencies	77...81 GHz 3 center frequencies	77...81 GHz 3 center frequencies	77...81 GHz 1 center frequency
Detection Range Passenger Car	95 m / 311.68 ft	55 m / 180.45 ft	19 m / 62.34 ft	9.5 m / 31.17 ft
Detection Range Min...Max	1.3...130 m / 4.27...426.5 ft	0.6...56 m / 1.97...183.73 ft	0.2...19 m / 0.66...62.34 ft	0.1...9.5 m / 0.33...31.71 ft
Range Separation	≤ 1.3 m / ≤ 4.27 ft	≤ 0.6 m / ≤ 1.97 ft	≤ 0.3 m / ≤ 0.98 ft	≤ 0.15 m / ≤ 0.49 ft
Range Accuracy	< 0.67 m / < 2.2 ft	< 0.3 m / < 0.98 ft	< 0.1 m / < 0.33 ft	< 0.05 m / < 0.16 ft
Speed Min...Max		-340...+140 km/h / -211.3...+87 mph		-60...60 km/h / -37.3...+37.3 mph
Speed Separation	0.15 m/s		0.3 m/s	
Speed Accuracy	< 0.075 m/s		< 0.15 m/s	
Field of View: Azimuth		-65...+65°		-70...+70°
Field of View: Elevation		-7.5...+7.5°		-14...+14°
Angle Accuracy: Azimuth			≤ 0.5°	
Angle Accuracy: Elevation			≤ 0.5°	
Angle Separation: Azimuth			8°	

MECHANICAL

Weight	< 186 g / < 6.56 oz
Dimensions	97 x 79 x 17.7 mm / 3.8 x 3.11 x 0.7in (plus connector)

GENERAL

Point Cloud Rate	up to 255 per cycle (~ 4.500 points per second)	
Update Cycle Time	≤ 70ms	≤ 55 ms
Operating Voltage / Power Supply	7...32 V / < 4 W	
Operating Temperature	-40...+85°C / -40...+185°F	
Interfaces	2xCAN FD 2Mbit/s; Ethernet 100MBit (2-wire); Ethernet 1Gbit (2-wire)	
Connector	TE 1411001-1 Series	
IP	IP 67	

