

DRVEGRD[®] 166

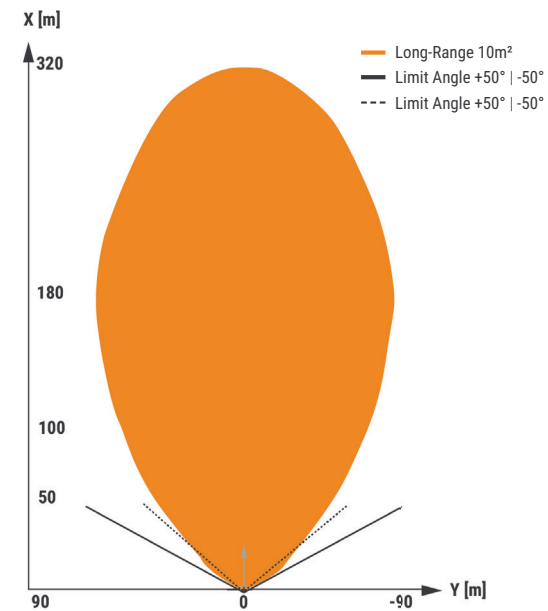
SOFTWARE-DEFINED RADARS FOR SAFE MOBILITY



4D/IMG
Imaging Radar
Highest Resolution

- ✓ Designed for ADAS, autonomous and industrial applications
- ✓ Blind & misalignment diagnosis*, interference suppression and avoidance
- ✓ User-selectable multi-mode, multi-band operation
- ✓ Long range of up to 300 meters
- ✓ 2.2° angular separation in azimuth

*Not available yet



	DRVEGRD® 166		
PERFORMANCE	Long-Range Mode	Medium-Range Mode	Short-Range Mode
Operating Frequency	76...77 GHz 4 center frequencies	76...77 GHz 2 center frequencies	76...77 GHz 1 center frequency
Detection Range Passenger Car	250 m / 820.2 ft	132 m / 433.1 ft	88 m / 288.7 ft
Detection Range Min...Max	1.8...300 m / 5.9...984.3 ft	0.5...132 m / 1.6...433.1 ft	0.32...88 m / 1.1...288.7 ft
Range Separation	≤ 2.5 m / ≤ 8.20 ft	≤ 0.55 m / ≤ 1.80 ft	≤ 0.42 m / ≤ 1.4 ft
Range Accuracy	< 0.75 m / < 2.5 ft	< 0.17 m / < 0.6 ft	< 0.1 m / < 0.3 ft
Speed Min...Max	-400...+200 km/h / -249...+124 mph	-400...+200 km/h / -249...+124 mph	-180...+180 km/h / -111...+111 mph
Speed Separation		≤ 0.15 m/s	
Speed Accuracy		< 0.04 m/s	
Field of View: Azimuth		-50...+50°	
Field of View: Elevation		-10...+10°	
Angle Accuracy: Azimuth		≤ 0.25°	
Angle Accuracy: Elevation		≤ 0.25°	
Separation: Azimuth	2.2°	2.2°	2.2°
MECHANICAL			
Weight	< 830 g / < 30.3 oz		
Dimensions	122 x 171 x 48 mm / 4.8 x 6.7 x 1.9 in		
GENERAL			
Point Cloud Rate	up to 1024 per cycle (~ 20.480 points per second)		
Update Cycle Time	≤ 55 ms		
Operating Voltage / Power Supply	7...32 V / < 15 W		
Operating Temperature	-40...+85°C / -40...+185°F		
Interfaces	2xCAN FD 5MBit/s; Ethernet 100MBit (2-wire); Ethernet 1GBit (2-wire)		
Connector	MX64 Molex Series		
IP	IP 67		

