

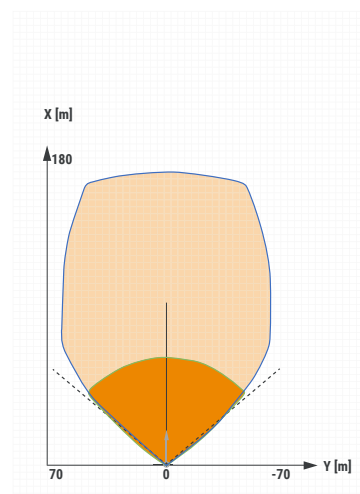


DRVEGRD[®] 152 & DRVEGRD[®] 171

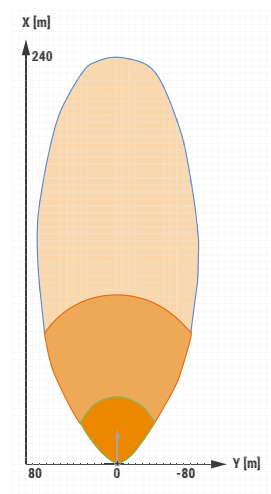
SOFTWARE-DEFINED RADARS FOR SAFE MOBILITY



- ✓ Designed for ADAS, autonomous and industrial applications
- ✓ User-selectable multi-mode, multi-band operation
- ✓ 76...77GHz operating frequency
- ✓ A 48 virtual TRX antenna array
- ✓ DRVEGRD[®] 152 range interval of 0.33m to 180m
- ✓ DRVEGRD[®] 171 range interval of 0.2m to 240m



DRVEGRD[®] 152
Azimuth Beam
 — Long-Range Mode (10m² Target)
 — Medium-Range Mode (10m² Target)
 - - - Field Of View Limits



DRVEGRD[®] 171
Azimuth Beam
 — Extra-Long-Range Mode (10m² Target)
 — Extra-Medium-Range Mode (10m² Target)
 — Short-Range Mode (10m² Target)

DRVEGRD® 152
DRVEGRD® 171
PERFORMANCE

	Long-Range Mode	Medium-Range Mode	Extra-Long-Range Mode	Extra-Medium-Range Mode	Short-Range Mode
Operating Frequency	76...77 GHz 4 center frequencies	76...77 GHz 2 center frequencies	76...77 GHz 4 center frequencies	76...77 GHz 2 center frequencies	76...77 GHz 1 center frequency
Detection Range Passenger Car	178 m / 584 ft	65 m / 213.3 ft	240 m / 787. ft	98 m / 321.5ft	42 m / 137.8 ft
Detection Range Min...Max	0.9...178 m / 2.95...584 ft	0.33...65 m / 1.08...213.3 ft	1.2...240 m / 3.94...787.4 ft	0.5...98 m / 1.64...321.5 ft	0.2...42 m / 0.66...137.8 ft
Range Separation	≤ 1.8 m / ≤ 5.9 ft	≤ 0.66 m / ≤ 2.17 ft	≤ 2.4 m / ≤ 7.87 ft	≤ 1.0 m / ≤ 3.28 ft	≤ 0.4 m / ≤ 1.31 ft
Range Accuracy	≤ 0.45 m / ≤ 1.48 ft	≤ 0.16 m / ≤ 0.53 ft	≤ 0.6 m / ≤ 1.97 ft	≤ 0.25 m / ≤ 0.82 ft	≤ 0.1 m / 0.33 ft
Speed Min...Max	-400...+200 km/h / -249...+124 mph		-400...+200 km/h / -249...+124 mph		-400...+200 km/h / -249...+124 mph
Speed Separation	≤ 0.26 m/s		≤ 0.26 m/s		≤ 0.52 m/s
Speed Accuracy	≤ 0.07 m/s		≤ 0.07 m/s		≤ 0.14 m/s
Field of View: Azimuth	-50...+50°		-50...+50°		
Field of View: Elevation	-10...+10°		-10...+10°		
Angle Accuracy: Azimuth	≤ 0.25°		≤ 0.5°		
Angle Accuracy: Elevation	≤ 0.5°		≤ 0.5°		
Separation: Azimuth	2°		2°		

MECHANICAL

Weight	< 310 g / < 10.93 oz	< 455 g / < 16.05 oz
Dimensions	97 x 143 x 20.3 mm / 3.82 x 5.63 x 0.8 in	97 x 143 x 25.7 mm / 3.82 x 5.63 x 1.01 in

GENERAL

Point Cloud Rate	up to 255 per cycle (~ 4.500 points per second)			
Update Cycle Time	≤ 55 ms	≤ 55 ms	≤ 55 ms	≤ 55 ms
Operating Voltage / Power Supply	7 ... 32 V / < 6 W		7 ... 32 V / < 7 W	
Operating Temperature	-40...+85°C / -40...+185°F		-40...+85°C / -40...+185°F	
Interfaces	1xCAN FD 2MBit/s Ethernet 100BASE-T1 100MBit/s (2-wire) [default]; Ethernet 1000BASE-T1 1GBit/s (2-wire) [radar cube streaming]		1xCAN FD 2MBit/s; Ethernet 100BASE-T1 100MBit/s (2-wire) [default]; Ethernet 1000BASE-T1 1GBit/s (2-wire) [radar cube streaming]	
Connector	MX64 Molex Series		MX64 Molex Series	
IP	IP 67		IP 67	

