Radar Specification

Dimensions - 123X143X35 mm

Field of View (FOV) - Azimuth - 100°
Elevation - 30°

Detection Range (sensitivity) -
Short
Max Range - 38.4 m
Range Resolution - 7.5 cm
Mid
Max Range - 153.6 m
Range Resolution - 0.3 m
Long
Max Range - 300 m
Range Resolution - 0.6 m

Azimuth Resolution (Beam Width - 3 dB) - 1.25°
Elevation Resolution (Beam Width - 3 dB) - 2°

Doppler Resolution - 0.1 m/sec
Non-ambiguous Doppler Range -
-138 m/sec to 138 m/sec
Frame Rate - 10–30 FPS
Max Number of Detected Objects Per Frame - 450
Interface - Ethernet 1 Gbit/CAN-FD
Frequency - 76–81 Ghz
Max Bandwidth - 2 Ghz
Power Consumption - 15–25 Watt
Antennas - 48x48

Evaluation and Development Kit:

- On chip application processor, Application DSP and safety processor
- Radar application framework and software development tools
- A graphical user interface for easy operation of reference radar code