GPR Product Specs Sheet

	System Specifications
Localization Accuracy	Parking - 0.05m 95% cross track Parking - 0.10m 95% along track Local / City - 0.10m 95% cross track Local / City - 0.10m 95% along track Highway - 0.05m 95% cross track Highway - 0.20m 95% along track Absolute maximum thresholds Local / City / Parking - 0.29m cross track Local / City / Parking - 0.29m along track Highway - 0.40m cross track Highway - 0.80m along track
Failure Rates (Output error exceeds absolute maximum)	Local / City / Parking – 0.01% Cross Track Local / City / Parking – 0.03% Along Track Highway – 0.01% Cross Track Highway – 0.03% Along Track
Output Rate	Up to 50Hz, 20Hz nominal
Latency	<20ms
Region of Convergence	10m radius
Map Data Size	100MB / lane km
Vehicle Speed – Map Data Collection	0 to 135kph (Forward)
Vehicle Speed - Localization	0 to 180kph (Forward)
I/O Interface	Vehicle CAN: GNSS, IMU, Steering Angle, Wheel Speed Ethernet: GPR Data

	Hardware Specifications
Dimensions (Height x Length x Width)	Aegis L -> 4.9cm x 52.5cm x 166cm Aegis S -> 4.9cm x 52.5cm x 82.5cm
Weight	Aegis L -> 22.7kg Aegis S -> 15kg
Mounting Height	10cm to 30cm (Ground Surface to Bottom Surface of GPR Sensor)
Mounting Location	Vehicle chassis, underbody of vehicle
Power Consumption	9W
Input Voltage	9 to 16 VDC
Power Connection	Molex MX150
I/O Connection	Molex MX150

	Environmental Specifications
Storage Temperature	-40C to 125C
Operating Temperature	-40C to 85C
Humidity	10% - 90%
Mechanical Shock	Mechanical Shock validated per ISO 16750
Mechanical Vibration	Mechanical Vibration validated per ISO 16750
Sealing	IP67/IP6K9K
EMC	Tested to: - FCC 47 CFR Part 15 - ETSI EN 302-065-4-4 - ETSI EN 303-883 - ETSI TS 103-361 - CISPR 25 - ISO 7637 - ISO 16750 - ISO 11452 - ISO 10605