

Autonomous Mobility Solution AMS-SLAM-1000

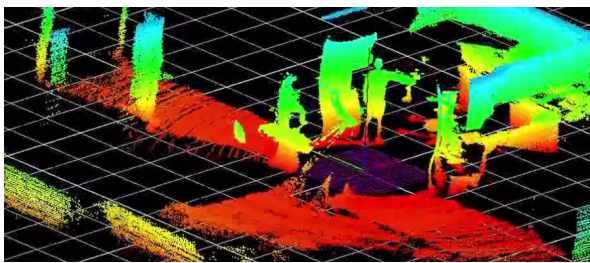


AMS-SLAM (Simultaneous Localization And Mapping) provides precise real-time mapping for smart navigation in dynamic environments.

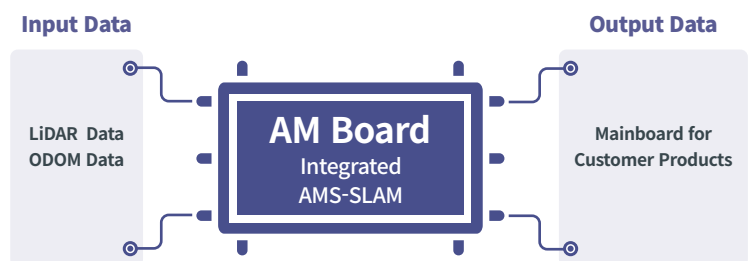
AMS-SLAM solution comes in an integrated board integrated for easy installation. AMS-SLAM gives robots the power to generate accurate maps in a variety of environments and simultaneously extract accurate robot locations inside maps. Our solution can be used with various types of LiDARs.

Key Feature

- ✓ Commercially proven technology
- ✓ Compatible with various LiDAR sensors
- ✓ Integrated board form
- ✓ Simple and rapid map building
- ✓ Precise and flexible mapping and localization



*LiDAR Scanning Data



Specifications

AMS-SLAM (Software)	Mobile platform speed	Mapping	max. 0.6 m/s
		Localization	max. 1.0 m/s
	Pose update rate	Localization	20 Hz
	Mapping/Localization Accuracy	Linear	+/- 40 mm
		Angular	+/- 1.5 degree
	Coverage	Mapping	max. 225m x 225m
	Supported drive type	Differential (2 wheels), Mecanum (Omni, 4 wheels)	
Compatible sensors	IMU, LiDAR (YUJIN LiDAR YRL3-series, RoboSense RS-Bpearl, Ouster OS0-64, Velodyne VLP-16, SICK TIM 510, 571, S300 mini, Slamtec RPLIDAR-A2)		
AM Board (Hardware)	General	CPU	Intel i7-7700
		Memory	DDR4 8GB
		Ports	2 x HDMI, 2 x USB 3.0, 2 x USB 2.0, 2 x Ethernet
		Power	12V/5A or 19~24V/4A
	Communication	Input data	LiDAR Data (Angle, Range), Odom Data (wheel radius, encoder, gyro, motor gear ratio -> x,y,theta)
		Output data	Map (PNG file, Key frame), Adjusted pose (x,y,theta)
		Interface I/O	Ethernet RJ-45
Protocol	UDP (User Datagram Protocol)		

* Specifications and design are subject to change without any prior notice.