

NeuronBot

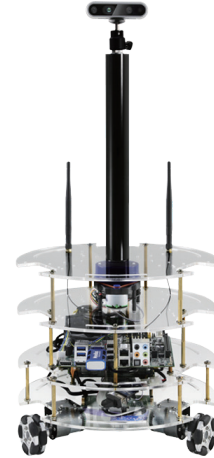
Fully-integrated mobile robot based on ROS 2

Key Features

- Integrated vision, control, AI and motion modules
- Designed for rapid robotic development

Introduction

The NeuronBot is an assembly of 4 different modules, each fulfilling vision, control, AI or motion functions. Users can quickly learn to code by controlling the robot and developing applications with open source ROS libraries and packages.



Specifications

	NeuronBot
ADLINK ROS Starter Kit	
Processor	Intel® Celeron® processor
Memory	4GB
Storage	64GB
Vehicle Dynamics and Motor Controller	
MCU	Cortex M3
IMU	MPU6050 6-axis IMU (gyroscope + accelerometer)
Sensor	
LiDAR	EAI YDLIDAR X4
Depth Camera	
Camera	Intel® RealSense D435
Power Requirements	
Battery capacity	4200 mAh
Mechanical	
Base plate diameter	33 mm
Height	265 mm
Weight	5 kg
Actuators	4.32 watt DC motor
Software	
Environment	ROS/ROS 2
Middleware	ADLINK Opensplice DDS