AX8112 L300 Lifting AMR Specs

Picture		
Basics	Height	1240 (mm)
	Size	740*500 (mm)
	Weight	78kg
	Exterior material	ABS, Sheet Metal
Carrier	Shelf	Standard: 660*700*325 (mm) or customize the shelf
	Rated load	300kg
	Lifting height	50mm
	Lifting speed	5mm/s
Use Environment	Water-proof & Dust-proof	Whole body IP43, battery IP66
	Operating temperature	· -10 ℃ ~ 65 ℃; UV resistance; Corrosion resistant
	Storage temperature	· -20℃~65℃
	Charging temperature	5~40℃ (indoor)
Display&touch	10.1inch, resolution 1280*800	
Network Communication	4G	Support FDD B1/B3/B5/B8, TDD B38/39/30/41
	5G	Supported, need to add 5G accessories
	Data quota	2G/ month for each robot
	WIFI	Wifi module (AP6256) 2.4G&5GHz, support 802.11a/b/g/n/ac protocal
	Bluetooth	Bluetooth 5.0, BLE
OS	Android 11+ Linux(Ubuntu)	
Sensors	LiDAR	Detection zone: 360º, Detection range: 0.02~40m
	Depth camera	FOV: H 72° (±3°) V 50.5° (±3°), Detection range: 0.4~2m
	RGB camera	215° FOV, resolution 1280*720
	IMU	6DOF; Rate dynamic range: ±2000dps; Precision: 0.01°
	Wheel speed indicator	odometer
Charging & Battery life	Battery	Charging voltage: 24V
		Capacity: 30000mAh
		Battery life : 9h Use charging pile to achieve 7*24h service
		The time it takes to fully charge: 5.5h
	Adapter	Working voltage: 100~240VAC、50/60Hz
	Charging pile	Dimension: 375mm*160mm*355mm
		Weight: 4.35kg
		Input: 100-240V~50/60 Hz
		Output: 29.4V==7.0A
	Chassis CPU	ARM® Quad-core Cortex-A72 1.5Ghz
	Screen CPU	ARM® Quad-core Cortex-A55 2.0Ghz
	Chassis GPU	VideoCore VI
	Screen GPU	Mail-G52 GPU
	Chassis memory	RAM: 4GB binary channels LPDDR4; ROM: 32GB High speed eMMC

Control	Screen memory	RAM: 2GB binary channels LPDDR4; ROM: 16GB High speed eMMC
	Picture processing	Support OpenGL ES 1.1/2.0/3.0, OpenCL1.2, Directx11
		Embedded high performance 3D acceleration hardware
		H.264/H.265/VP9 up to4Kx2K@60fps H.264/H.265 The decoder supports 10bit decoding
		1080P multi-format video decoding, support H.264, VP8 and MVC
Other firmware	indicator light	LED
	Emergency stop button	1
	Loudspeaker	8Ω15W Supports TTS/ audio stream output
Movement	Velocity	1.2m/s Adjustable
	Whether support outdoor operation	It can be used in qualified parks/industry zones
	Obstacle climbing	20mm
	Slope climbing	8°
	Floor gap width	35mm
	Passage width	The narrowest width of the robot path needs to be not less than 70cm
	Elevator width	70cm+
	Gate width	70cm+
	Positioning Accuracy	±5(mm)/±1(°)
Expansion	Peripherals	Elevator, automatic door, notification light and speaker, call button, follow wristband, roller, box, shelf
Software	APP	APP remote management. Use the app program to send robot task, visualize task statistics functions.
	Robot management platform	Authorization allocation and business management of robot users; Operational data analysis
	Remote monitoring platform	Real-time status monitoring; Real-time fault alarm and remote processing
	Remote deployment management platform	The robot can be deployed via remote mapping. Operators can scan and edit the map remotely.
	Remote scheduling management platform	Remote cross-space scheduling
	Real-time data visualization	Display real-time status and operational statistical analysis of robots in different businesses.