

AX8112 L300E Lifting AMR Specs

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|------------------------------------|--|-------------------------------|---|-----------------------|---|---------------------|--|----------------------|---|-----------------------|--|
| Picture |   | | | | | | | | | | |
| Basics | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Height</td><td>1240 (mm)</td></tr> <tr> <td>Size</td><td>900*600 (mm)</td></tr> <tr> <td>Weight</td><td>100kg</td></tr> <tr> <td>Exterior material</td><td>ABS, Sheet Metal</td></tr> </table> | Height | 1240 (mm) | Size | 900*600 (mm) | Weight | 100kg | Exterior material | ABS, Sheet Metal | | |
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| Carrier | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Shelf</td><td>Standard: 790*900*330 (mm) or customize the shelf</td></tr> <tr> <td>Rated load</td><td>300kg</td></tr> <tr> <td>Lifting height</td><td>50mm</td></tr> <tr> <td>Lifting speed</td><td>5mm/s</td></tr> </table> | Shelf | Standard: 790*900*330 (mm) or customize the shelf | Rated load | 300kg | Lifting height | 50mm | Lifting speed | 5mm/s | | |
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| Use Environment | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Water-proof & Dust-proof</td><td>Whole body IP43, battery IP66</td></tr> <tr> <td>Operating temperature</td><td>-10 °C ~ 65 °C; UV resistance; Corrosion resistant</td></tr> <tr> <td>Storage temperature</td><td>-20°C~65°C</td></tr> <tr> <td>Charging temperature</td><td>5~40°C (indoor)</td></tr> </table> | Water-proof & Dust-proof | Whole body IP43, battery IP66 | Operating temperature | -10 °C ~ 65 °C; UV resistance; Corrosion resistant | Storage temperature | -20°C~65°C | Charging temperature | 5~40°C (indoor) | | |
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| Display&touch | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">10.1inch, resolution 1280*800</td><td></td></tr> </table> | 10.1inch, resolution 1280*800 | | | | | | | | | |
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| Network Communication | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">4G</td><td>Support FDD B1/B3/B5/B8, TDD B38/39/30/41</td></tr> <tr> <td>5G</td><td>Supported, need to add 5G accessories</td></tr> <tr> <td>Data quota</td><td>2G/ month for each robot</td></tr> <tr> <td>WIFI</td><td>Wifi module (AP6256) 2.4G&5GHz, support 802.11a/b/g/n/ac protocol</td></tr> <tr> <td>Bluetooth</td><td>Bluetooth 5.0, BLE</td></tr> </table> | 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 protocol | Bluetooth | Bluetooth 5.0, BLE |
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| Sensors | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">LiDAR</td><td>Detection zone: 360°, Detection range: 0.02~40m</td></tr> <tr> <td>Depth camera</td><td>FOV: H 72° (±3°) V 50.5° (±3°) , Detection range: 0.4 ~2m</td></tr> <tr> <td>RGB camera</td><td>215° FOV, resolution 1280*720</td></tr> <tr> <td>IMU</td><td>6DOF; Rate dynamic range: ±2000dps; Precision: 0.01°</td></tr> <tr> <td>Wheel speed indicator</td><td>odometer</td></tr> </table> | LiDAR | Detection zone: 360°, 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 |
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| Charging & Battery life | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Battery</td><td> 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 </td></tr> <tr> <td>Adapter</td><td>Working voltage: 100~240VAC, 50/60Hz</td></tr> <tr> <td style="width: 30%;">Charging pile</td><td> Dimension: 375mm*160mm*355mm Weight: 4.35kg Input: 100~240V~50/60 Hz Output: 29.4V=7.0A </td></tr> </table> | 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 | | | | |
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|----------------|---------------------------------------|---|
| 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 to 4Kx2K@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 | 8Ω 15W 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 75cm |
| | Elevator width | 75cm+ |
| | Gate width | 75cm+ |
| | 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. |