

LilBuddy

THE COMPACT COBOT THAT NEVER QUILTS

FEATURES AND OVERVIEW

LilBuddy autonomous mobile robot (AMR) brings automated movement to any business with its game-changing compact size and flexible natural feature guidance. With a 17"x17" base, LilBuddy is one of the smallest AMRs in the industry.

TRAFFIC CONTROL

- Natural feature & magnetic tape hybrid guidance (optional)
- Front and rear 2D/3D Lidars for obstacle detection
- Small footprint and turn-in-place ability makes it ideal for congested or narrow areas
- Able to tow loads and drop them off automatically at a given location

SENSORS

- 2 2D/3D Solid State Lidars
- Dual wheel encoders for velocity control and position feedback
- 9-DOF Inertial Measurement Unit
- Vision processing and live-stream video camera (optional)
- Load alignment sensors on cart
- Safety light signals for movement and status alerts



MODULAR DESIGN

- Cart Pin allows for connecting 3rd party & custom LHF's
- Individual components can be replaced easily
- LHF's, work cells or attachments can communicate with LilBuddy wirelessly without a tether - through BotWay



COMMUNICATION PROTOCOLS

- LilBuddy uses Wifi, Bluetooth & Lora technologies (optional)
- LilBuddy communicates via MQTT to BotWay 3rd-party Fleet Managers or IIOT devices directly
- LilBuddy can manually be controlled by a web-based interface.



Bluetooth



LoRa

MQTT

TECHNICAL SPECIFICATIONS

BATTERY CAPACITY	18 AMP HOURS	WEIGHT (LBS)	50 LBS
OPERATING VOLTAGE	24v DC	TOWING CAPACITY (LBS)	220 LBs
AVG RUNTIME	12 HOURS (NONSTOP)	SIZE (INCHES)	17in x 17in x 12in
2D LIDAR RANGE Includes 2 LIDARs	360 DEGREE TOTAL Up to 39 feet away	3D LIDAR RANGE	60 Degree 315in