

A stylized teal graphic element consisting of two overlapping, wavy, leaf-like shapes that curve upwards and to the right, positioned on the left side of the page.

SMART DUSTBIN

KernelSphere

A large, dark blue graphic element that forms a wide, wavy band across the bottom half of the page, resembling a stylized wave or a thick brushstroke.A cluster of light blue bubbles of various sizes, some with white highlights, located in the bottom right corner of the page.

Smart Dustbin

Smart bin is having ultrasound sensor to detect filled percentage (%) of the bin in order to optimize resources and keeps the environment pollution free. Smart bin Lora shield sends message to the nearest driver and municipal authority stating that specific bin is ready to pick up. Regular live data will be posted in the server and shown in dashboard. Smart bin application shows the current status of each bin in the cit. 24/7 live monitoring can be done by the smart bin app.

Features of Smart Dustbin

- Increase Productivity
- Reduce Operation Costs
- Save Money on Fuel
- Control Work Hours
- Better Customer Service
- Reduce Insurance Costs
- Increase Security
- Improve Dispatching

Specifications

Wireless Frequency Band	865 ISM (option support for European band 868 MHz)
Operating Voltage	Battery power with docking station for charging
Receive Sensitivity	-136 dBm typ.
Operating Temperature	-10°C ~ 50°C
Dimensions	L:59 x W:24 x 11.5mm
Number of Channel	Configurable 8 channels (SKU-EU)
Transmit Power	+20 dBm
Antenna Type	Internal antennas
Modulation	Based on IEEE 802.15.4g
LED indicator	TBD
Protection Requirements	IP67