

# Infrastructure Requirements

## Hardware requirements and specifications

Version 1.0

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# What will this document help you achieve?

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This document will help you understand the different kinds of hardware required to deploy Logistimo. The document will also cover the technical specifications that are recommended for the hardware.

## Hardware requirements

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- For entering data & monitoring:
  - Smartphones for last-mile users and managers
  - Laptops for managers and administrators (mandatory)
  - SIM cards with data plan for the smartphones
  - Data cards/dongles for travelling supervisory personnel
  - Wi-Fi Routers at applicable facilities
- SIM cards for the smartphones and assets (if necessary)
- For monitoring temperature:
  - Remote temperature monitoring devices
  - Signal boosters in areas where there is poor network (optional)
- For Bulletin Board on a TV (a means of displaying the most critical items in the supply chain that demands immediate attention):
  - Flat screen TVs
  - Smart box to enable bulletin board on non-smart TVs
  - Wi-Fi Routers

## Recommended hardware specifications

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- **Smartphones**

Features	Minimal	Recommended
Android version	4.4 (Kitkat)	6.0 (Marshmallow)
Phone resolution	1280 X 720	1280 X 720
RAM	1 GB	2 GB

Network	Edge/GPRS	3G/4G/Wi-Fi
Bluetooth	NA	4.0
Storage	8 GB	8 GB and above
Battery	2300mAh	2700mAh or above
Screen size	4.5 inch	5 inch
Connectivity	2G	3G or higher
GPS	GPS or A-GPS	GPS
Camera	Yes	Yes
SIM	Single	Dual

- **Laptops/Desktops**

Feature	Minimal	Recommended
RAM	4 GB	4 GB
Storage	128 GB	256 GB or above
Resolution	1280 X 720 P	1280 X 720 P or above
CPU	Dual core	Intel Core i3 processor or above
Screen size	14 inch	14 inch or above
Battery	4400 mAH	4400 mAH or above
Operating system	Windows 7	Windows 7
	Mac Yosemite	Mac Sierra
	Ubuntu 14	Ubuntu 16.0.4
Browsers	Chrome, Firefox, Safari, IE 11 on Windows 10+	Chrome

- **SIM cards**

We do not recommend any one service provider over the other but it is of paramount importance that the network provider with the best network availability in your area of operation is chosen. Some organizations like [OpenSignal](#) can be used to compare network strength of service providers in an area.

2G enables SIM cards are sufficient for Logistimo to run, but higher connectivity can be utilized if feasible.

- **Remote temperature monitoring devices (RTM)**

The Logistimo system is RTM hardware agnostic and can be integrated with any RTM device that has open APIs. We are seamlessly integrated RTM device makers s Nexleaf Analytics, Nimble Wireless and Berlinger & Co.

Factors to keep in mind while selecting an RTM device are to verify if they have:

- WHO PQS certification
- Adequate number of sensors
- Adequate battery life to ensure power cuts don't affect data collection and transmission
- Internet data-enabled SIM cards
- Intelligence to switch to SMS when internet connectivity is unavailable

- **Flat screen TVs**

TVs can be used to display the bulletin board (a means of displaying the most critical items in the supply chain that demands immediate attention).

Any non-smart or smart TV can be used, a non-smart TV will have to be paired with a smart box. Any flat screen TV that can be mounted and is 40 inches or larger is recommended.

- **Smart box**

Smart boxes can convert regular non-smart TVs into smart TV. Buying a smart box for a regular TV is more economical than buying a smart TV. Once the smart box has been set up, the TV can connect to the internet and fetch information from the Logistimo system. The Akai Smartbox and the Cloudwalker Smart TV stick are a few options. The smartboxes should also have browsers that are compatible with the browser recommendations listed under laptop/computer.

- **Wi-Fi Routers, Dongles and Signal Boosters**

Wi-Fi Routers and dongles for backup are required if you plan on using the Logistimo Web application. Routers and dongles that support 3G can be used, again it is very important that a proper assessment is carried out at the site of operation to identify the best internet service provider. Signal boosters can be used in areas where internet connection is proving to be problematic.

*Did you find this document helpful? Would you have added any additional information?*

*If yes, please drop your feedback at [support@logistimo.com](mailto:support@logistimo.com)*