



Edison

SLQ Wiki Fabrication Lab 2024/07/19 08:24

Edison



An Australian based robot which is LEGO compatible, the Edison can be converted into a myriad types of machines with the EdCreate extension pages, LEGO blocks, or whatever you might have lying around! Edison can be coded via its own block-based coding language - EdBlocks, or via barcodes, and can be driven with any infra-red remote control unit.

Recommended Ages	Year 2 to Year 6 (ages 7 to 11)
Product Cost	Edison robot \$60-\$80 EdCreate Pack \$30-\$50
Where to Purchase	The Edison units can be purchases from STEM and electronic stores such as Core Electronics or Modern Teaching Aids

EdCreate Kit

The EdCreate Edison robot creator's kit is a 5-in-1 expansion pack construction system. Designed to work with the Edison robot, EdCreate enriches students' STEM education experience through interactive engineering and programming projects.

The EdCreate system can be used with Edison robots to complete five EdBuild projects:

- the EdTank,
- the EdDigger,
- the EdRoboClaw,
- the EdCrane, and
- the EdPrinter.

The EdBuild projects require progressive levels of coding capabilities, making them a perfect addition to the Edison programming and robotics curriculum.

EdCreate can also be used in a wide range of open-ended engineering, design and programming challenges. Open-ended projects, including the EdCreate EdChallenges, promote creative problem solving and give students opportunities to find STEM applications to real-world scenarios.

Product Requirements

- The Edison uses 4xAAA batteries

Loanable Kits

State Library has kits of this item available for loan to libraries within the Regional Libraries Queensland and Indigenous Knowledge Centres network. Libraries can place a reservation through the Aurora catalogue (availability is subject to existing reservations, loans and associated return dates).

The kits are for use by patrons within the library only, as part of supervised library programming. They will not be listed in the public online catalogue for personal reservation.

Please contact [Access Services](#), or phone 07 3842 9014 with any queries.

Activities

- [Edison Lunar Rescue](#)
- [Edison RoboPets](#)

Resources

- [Video Tutorials](#)

Tips

Barcode Reading issues

- Make sure the Firmware is up to date by visiting <https://meetedison.com/edison-robot-support/firmware-update/>
- Perform a [Drive calibration](#) on the unit
- The paper may appear too translucent under the sensor and you may need to put additional blank pieces under the barcodes. This can be the case for paper less than 140gsm.

Issues with Samsung Tablets

- Some libraries have reported issues when downloading code from the Edison app to the Edison robot when using Samsung and HTC tablets. No fix has been discovered yet.

Remote Controls

- To use multiple remote controls at one, you will need to use Universal Remote Controls available at homewares or discount stores for around \$10
- Some areas can still pose problems for Universal Remote Controls and Edison Units due to

reflective surfaces or low ceiling heights. Activities may need to be modified to only allow 1-2 people to remote an Edison in a short time-limited, round robin fashion