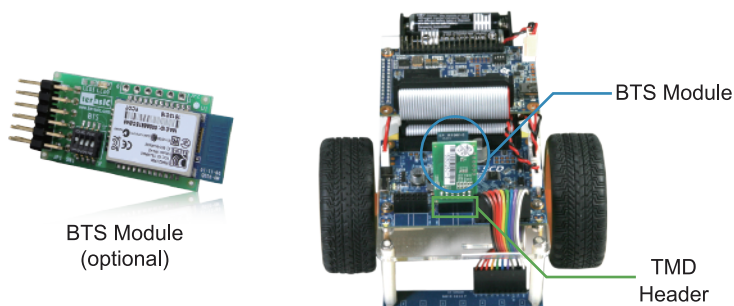


## 5 Bluetooth Remote Control

A-Cute car system CD also includes a Bluetooth remote control demo code.

Users can remote control the A-Cute car from any Android mobile via Bluetooth if Terasic Bluetooth module, BTS-TMD, has been installed. The BTS-TMD is sold separately.



SmartCarRemote.apk

Users can download and install the Android application for remote control via Bluetooth by scanning the QR code from any Android device.

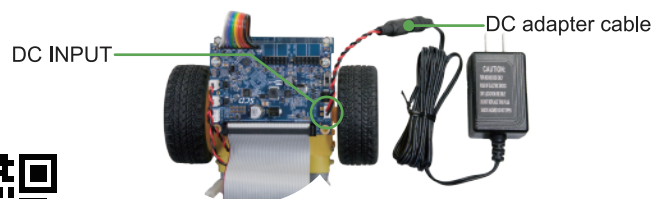
## 6 Power Information

The bundled AA batteries only can offer 5~10 minutes on the Line Following Demo setting.

Rechargeable AA batteries are recommended if users plan on using the demo for extended periods of time.

Four 2400mAh rechargeable AA batteries can supply approximately 2 hours of power for the demo.

A-Cute car can also be powered from the 5V power adapter via the DC adapter cable, as shown below.



www.terasic.com

If you encounter any problems, please contact us via

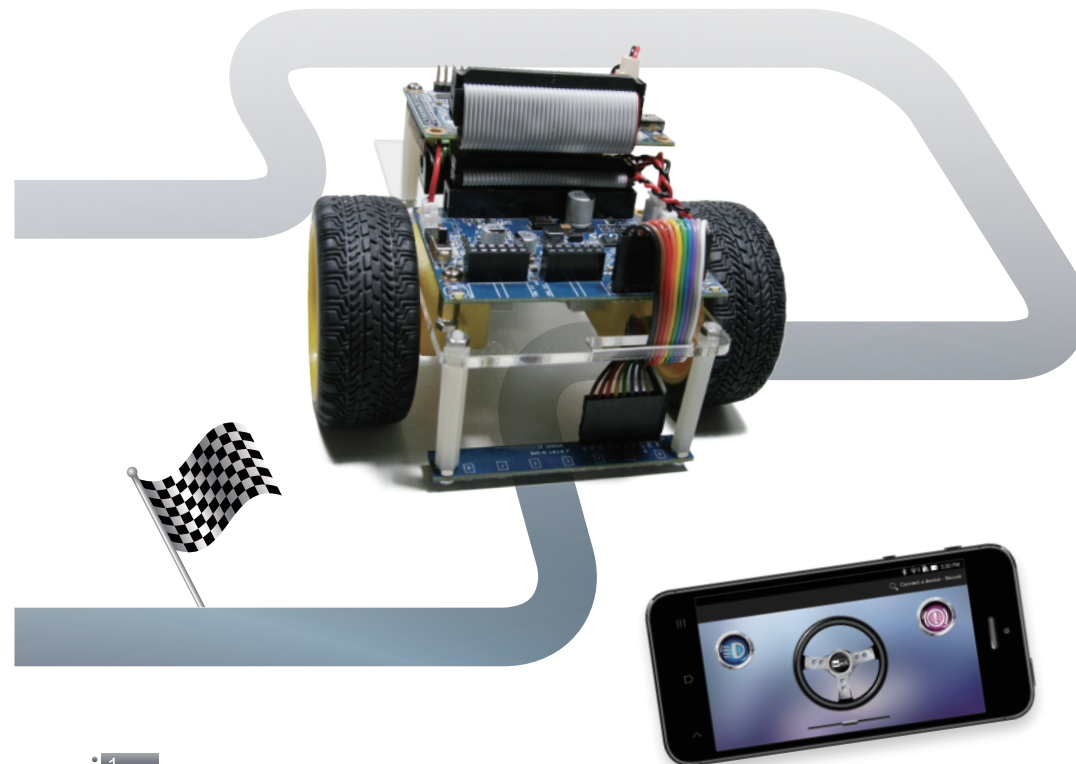
Email: support@terasic.com

Tel: +886-3-575-0880

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Quick Start Guide ►►►



## 1 What's in the Box?

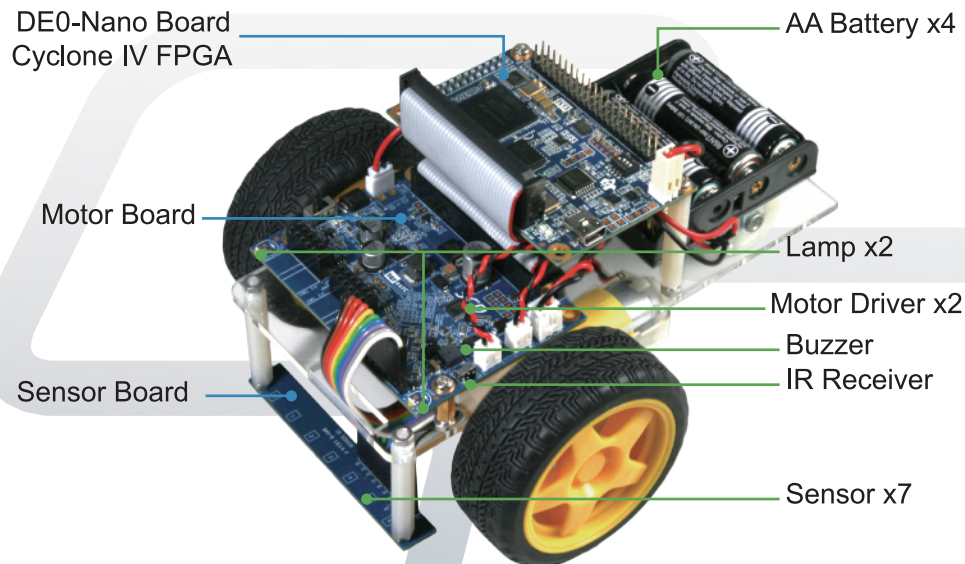


- 1 A-Cute Car
- 2 Four AA batteries
- 3 IR Remote Control
- 4 USB Cable
- 5 5V Power Adapter
- 6 DC Adapter Cable
- 7 Quick Start Guide

www.terasic.com

## 2 Overview

The A-cute car is an FPGA based line following robot car. It consists of DE0-Nano mainboard, SCD (Smart Car Daughter card) motor board, and sensor daughter card. The SCD motor board includes a pair of lamps, buzzer, motor driver DRV8833, IR receiver, ADC chip LT2308, and TMD (Terasic Mini Digital) expansion header. The sensor daughter card includes seven Photo Interrupters which are used to track dark line(s) on a white background.



## 3 Download System CD

Users can download the latest system CD from <http://car.terasic.com/cd>

## 4 Perform Power-on Test

Setup IR Remote Control

1. Set the power switch of SCD board to OFF position.
2. Install the four AA batteries into the battery holder.
3. Set the power switch of SCD board to ON position.
4. The car buzzer will beep and lamp will flash when the power is on.
5. Use the IR remote control to control the A-Cute car

Preparation for the Line Following Demo

1. Prepare the BLACK LINE map
2. Place the sensor board across the BLACK LINE
3. Press KEY0 or KEY1 on the DE0-Nano to start the line following demo.
4. Press the PLAY button on the IR remote control can also start the demo.

