Modular System
Build your own car. Choose between different chassis, boards and sensors.

The building blocks – limitless creativity

The entry level starter kit

1) Pick a chassis

DFRobot ROB0165
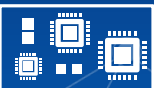Two Brushless DC motors, Servo, Camera Mounting

or

DFRobot ROB0157
Two Brushed motors, Servo, Camera Mounting

or

Your own choice*
Bring your own car, 3D printed or different supplier

+

2) Pick a platform

RDDRONE-FMUK66
Running on opensource software PX4

or

Mikroe NXP Cup Mainboard V20
with K64 Microcontroller

or

Your own choice*
Pick your own board from NXP (e.g. iMX or FRDM)

+

3) Pick a camera sensor

Pixy2 Cam
intelligent camera with NXP chip on board

or

Parallax 28317
Linescan Camera Module 128-pixel resolution

or

Your own choice*
Pick your own camera

Combo: Chassis + board

DFRobot ROB0157-A
Two Brushed motors, Servo, Camera Mounting

including

Mikroe NXP Cup Mainboard V20
with K64 Microcontroller

+

Pixy2 Cam
intelligent camera with chip on board

In collaboration with

electro {maker}

MOUSER ELECTRONICS

*Read the rules for minimum specifications if you build your own kit.

All cars and boards can be purchased via Mouser Electronics
Landzo Model C and Alamak from previous seasons are allowed to the challenge!

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NXP

Modular System - Tested NXP recommendations

Pioneer Kit for early adopters
View Shopping cart example

1) Pick a chassis

DFRobot ROB0165
Two Brushless DC motors, Servo, Camera Mounting

The advanced solution
All-new NXP CUP exclusive chassis. For the first time ever with brushless motors.

€103

+

2) Pick a platform

RDDRONE-FMUK66
Running on opensource software PX4

All-new Vehicle management unit. Be among the first using PX4 for rovers!

€27*

+

3) Pick a camera sensor

Pixy2 Cam
intelligent camera with chip on board

Pixy2 Cam has its own NXP MCU with line tracking and object detection.

€69

Push the limits with all-new chassis, board and cam. Fully supported on Gitbook.

€199

Entry kit with the champions board
View pre-defined Shopping Cart example

Combo: Chassis + board

DFRobot ROB0157-A
Two Brushed motors, Servo, Camera Mounting

including

Mikroe NXP Cup Mainboard V20
with K64 Microcontroller

The Champions solution
All-new reliable brushed motors kit.

Use the champions board! The board has been developed and used by multi-time winner HE-ARC Ingenierie, Switzerland.

This package includes chassis and board – so you don't have to buy them seperately.

€83

+

Pixy2 Cam
intelligent camera with chip on board

Pixy2 Cam has its own NXP MCU with line tracking and object detection.

€69

Known technology from previous seasons with promising Mikroe *board*. Fully supported on Gitbook.

€152

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*Limited availability! Special discount for participants only. Special price only valid in combination with DFRobot ROB0165 and Pixy2 Cam. See instructions.

NXP