









For full details and pricing visit www.rapidonline.com

Rapid part of the FIRAL Group



Kev features:

- 5x5 LED matrix display
 2x tactile switch button inputs
- · Electronic compass · Accelerometer · 3x input/output rings
- Bluetooth 4.0 connectivity

Colours may vary.



MICRO:BIT ONLY

Requires battery box and batteries or alternative form of 3V power

supply

Only

Order code 75-0115

If you are new to programming robots and don't know where to start, look no further than Ozobot.







mBot Ranger

The Transformable STEM Robot Kit

The mBot Ranger builds on the basics of the mBot but includes a more powerful main board, more sensors and more structural parts. The instructions show you how to use the kit to build 3 very different robots – the Land Raider off road tank, Dashing Raptor and self-balancing Nervous Bird.

mBot Ranger includes a light sensor, ultrasonic distance sensor, line follower, gyroscope, temperature sensor and sound sensor. It also has 12 RGB LEDs and a buzzer for outputs.

Programming the mBot Ranger

You can program the mBot Ranger using mBlock for Windows PCs and Mac or Makeblock HD for iPad and Android tablets.

Order Code	Description	Price
75-0699	mBot Ranger	£118.80









Accessories

For mBot Ranger Robot

6-Legged **Expansion Pack**

£18.00 Order code 75-0705



Mini Gripper

The Me RJ25 Adaptor is required to connect the Gripper to the main board.

Mini Gripper

Me RJ25 Adaptor

Order code 75-0706

Order code 75-0712

Robot Gripper

The Me Dual DC Motor Driver is required to connect the Mini Gripper to the main board of the mBot or mBot Ranger.

Robot Gripper Me Motor Driver

Order code 75-0703

Order code 75-0713



Programming your Makeblock mBot Ranger

There are a number of your mBot Ranger

mBlock

Compatibility



Makeblock HD







HEXY THE HEXIPOD ROBOT KIT

The Hexy Hexapod from Seeed Studio includes everything you need to build your own 6-legged robot, there's even a spare leg!



- Arduino compatible microcontroller included
- Bluetooth module for remote control
- Ultrasonic distance sensor
- Hexy is 305mm wide by 178mm long
- Weight 1.5kg

£202.82

Order code 75-0409

Orderline: 01206 751166 - www.rapidonline.com



Magician Chassis Robot

The self assembly kit comes complete with two high torque motors with built-in gearboxes, wheels. rollerball front wheel and 3xAA battery holder. The cleverly perforated chassis allows you to easily mount your PCBs using PCB pillars and screws.

- Overall dimensions 175 x 125 x 75mm
- 65mm diameter wheels

Robot Tank Chassis

The chassis has built-in motors and gearboxes which you can easily interface with PICAXE. GENIE. Arduino or any other microcontroller system, as well as radio control systems. The RP5 tank track chassis is supplied ready assembled - just add your own control system and hatteries!

- Dimensions: 175 x 135 x 60mm
- · 2x 280 type motors
- 80:1 gear ratio
- · Rubber tank tracks
- . 6x AA Battery holder included



- Features a compartment for 4x AA batteries
- · Sockets for two micro metal gearmotors
- Acrylic plate for mounting hardware

Note: Motors and batteries are not included.



seeed

£133.49

Order code



- Arduino compatible & programmable controller
- · Wireless interface
- . Motors are plug-and-go compatible with the Hercules controller
- · Battery and charger included
- Dimensions: 216 x 138 x 90mm



Inc. Motors & Fixings 4 x DG01D motors 48:1 ratio gear

- metal output shaft 5 x AAA battery holder
 - . Supply voltage: 6 to 9V DC
 - Dimensions: 178 x 145 x 78mm

£36.52

Order code



4WD Mecanum Wheel Robot Kit Inc. Motors, Mounts & Fixings

- Moves in any horizontal direction
- . Motors are geared 1:35, 310rpm
- Dimensions: 250 x 145 x 97mm



£160.6 Order code



4WD Arduino Compatible Robotics Platform Inc. Motors & Mounts All aluminium construction

- . Motors require 3 to 12V DC
- · Speed: 90cm/s.
- Dimensions: 200 x 170 x 105mm

£47.59

Order code



2WD Arduino Compatible Robotics Platform Inc. Motors & Mounts

- . Motors rated for 3 to 6V DC
- · Estimated speed 70cm/s
- Dimensions: 199 x 170 x 108mm

£37.08



() seeed



Shield Bot V1.1 Arduino Compatible with Grove Connectors

- Arduing compatible shield Pre-built with motors attached.
- . Charge the battery, plug-in your Arduino and go
- Built-in line follower sensors Software library available online





Mini Vibration Motor 3V Rectangular

- Rated Speed: 12,000 @ 2 500rnm
- Dimension: 12 x 6 x 3.6mm

£2.03

Order code 75-0417



Gear Stepper Motor with Driver 5V 4 Pole

£5.60

Order code 75-0419



Gear Reduction Motor 6V 450mA Load **Current 60rpm**

Order code 75-0415



Quadcopter Motor 6x15mm 4.2V 810mA

- . Shaft length: 3.5 mm
- Shaft diameter: 0.8 mm Kv: 12000 rpm/V
- · Wire length: 67 mm

Order code 75-0418



Left Mecanum Wheel Kit Motor. Mount. **Shaft Connector** & Fixings

£39.74

Order code 75-0412



Right Mecanum Wheel Kit Motor. Mount. **Shaft Connector** & Fixings

£39,74

Order code 75-0411



Mecanum Wheel Kit (2 Left, 2 Right) **Includes Fixings**

Order code 75-0413



3V 2.0mm Circular The motor is not sensitive

to the polarity of the voltage applied. • Ø 10 x 2mm

Order code 75-0416



) seeed



Grove - Ultrasonic Ranger Distance Sensor 3cm to 4m 5V

Order code 75-0427



Grove - Electromagnet

Holds up to 1KG @ 5V 400mA



Grove - Thumb Joystick 3.3-5V





Order code 75-0457



Impact and Touch Sensor



Grove - Color Sensor I2C hased on TCS3414CS



Grove - PIR Motion Sensor 0.1-6m Range 120° Viewing Angle





Grove - I2C Motor Driver **Dual Channel 2A Per Channel**



Grove - Moisture Sensor for Water, Soil and Plants



Grove - Temperature & Humidity Sensor Pro High Accuracy

For more Seeed products visit www.rapidonline.com





1752 20W Stereo **Amplifier Class D** 4-8 Ohm Impedance MAX9744

Order code 75-0506

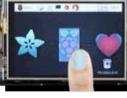
746 Ultimate GPS **Breakout Board** MTK3339 Chipset

£39.61

Order code 75-0496

2441 PiTFT+ 3.5in 480x320 TFT Touch **Display Raspberry** Pi 3. A+. B+ or 2

£45.07 Order code 75-0493



adafruit



3027 Feather 32u4 **FONA Arduino** Compatible

£44.57

Order code 73-5260

2465 PowerBoost Charger for Rechargeable 5V LiPo

£20.47

or Lilon Batteries

Order code 75-0500



2298 PiTFT+ 2.8in 320x240 TFT Touch **Display Raspberry** Pi 3, A+, B+ or 2

£36,10

Order code 75-0495

For more adafruit products visit www.rapidonline.com





Order code 73-6044

LEDs and More!



PIMORONI

Pihow 3 Rainhow Case for Raspberry Pi (Pi 3, 2, & B+)

£11.94

Order code 73-5419



PIMORONI

Pibow 3 Coupé Case for Raspberry Pi (Pi 3. 2. & B+)

£8.28

Order code 73-5423

BASIC PI KIT £70.57

Order code 75-0692



INTERMEDIATE Pi KIT £82.55

Order code 75-0693



ADVANCED Pi KIT £97.56

Order code 75-0694





Adventures in Raspberry Pi:

by Carrie Anne Philbin

Order code 97-2140



Raspberry Pi Component **Companion Kit**

£15.46

Order code 75-0037

Raspberry Pi 3 £33.80 Order code

75-0650









Order code 75-0530

Raspberry Pi NoIR 8MP

Infra-red camera





Official PSU

Order code 75-0532



LISIPAROI IR LED Ring/Flash for Raspberry Pi **NoIR Camera**



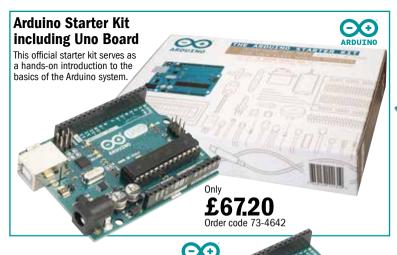


Order code 75-0043



Order code 97-2135





UNO A000066 R3

The Arduino Uno Board A000066 R3 is a microcontroller board based on the ATmega328. Arduino UNO is the best board to get started with electronics and coding. If this is your first experience with Arduino, the UNO is the most robust board you can start playing with. The UNO is the most used and documented board of the whole Arduino family.

MEGA 2560

The Arduino Mega 2560 is a microcontroller board based on the ATmega2560. Arduino MEGA 2560 is designed for more complex projects. With 54 digital I/O pins, 16 analog inputs and a larger space for your sketch it is the recommended board for 3D printers and robotics projects.













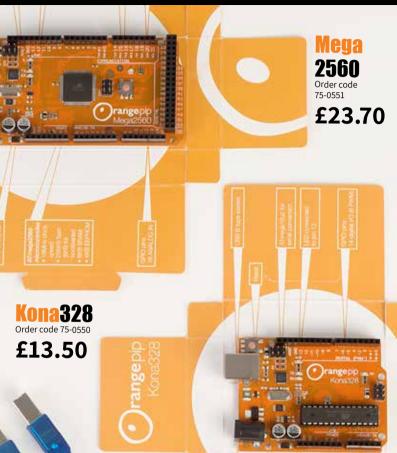


Buy an Orangepip Kona328 or Mega2560 and **range**pip **BASED ON ARDUINO BOARDS** The two Orangepip boards are similar to the Arduino Uno and Mega, using the same microcontrollers, GPIO pins, serial ports and 16MHz microcontroller, and compatible with Uno and Mega shields.

"Natid until 3rd January 2017 or until 2nd Edition

sino Bartal co founder of Arduno 16

receive a FREE O'REILLY book, just quote PIP01





Mini Arduino Compatible Wearable Starter Kit ASK2002-R TinvLilv

The TinyCircuits TinyLily starter kit lets you really get going to create some cool projects with the TinyLily Mini. This kit includes 2 x TinyLily Mini Processor boards, the TinyLily Mini USB adaptor, a TinyLily 3mm switch, a TinyLily Power adaptor, and 2 x TinyLily 1206 LEDs of each colour (2 x vellow, 2 x green, 2 x red) and basic instructions on getting started.

Only

Conductive Thread 6m (Bobbin)

This highly conductive thread is ideal for introducing electronics into textile projects.

£2.90Order code

TINYCIRC





Robotic Arm Kit - Wired Control

. No soldering required

Maximum lift 100g

• Dimensions 37.5 x 16.1 x 23cm

Weight 658g

• Requires 4x D batteries (not supplied)

Only

28.33 Order code

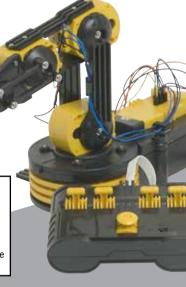
06-9349



Roboť Arm **USB Interface Kit**

· Compatible with Windows Vista, XP and Windows® 7 (not supplied)

£16.74 Order code 06-9350



Deluxe Robotic Arm Kit Includes Controller Board Nuka Cola Blue

The Maker kit contains the laser-cut acrylic parts, 4 x servos, nuts, screws and a hex key so that you can add your own microcontroller such as an Arduino, OrangePip, PICAXE or Genie board.

Self-assembly kit in Nuka Cola blue with controller

. Hex key, laser cut parts, 4 x servo motors and all fixing hardware supplied

() seeed

RePhone Create Kit Modular Mobile Phone System

- Build your own mobile phone
- Ideal for machine to machine (M2M) and Internet of Things (IoT) applications
- 1.54in. capacitive touch screen
- Speaker and microphone module
- Programmable from the Arduino IDE
- On-board battery charger, 540mAh battery supplied

The kit includes 1 x Xadow GSM and BLE main board, 1 x Xadow audio, 1 x Xadow 1.54in. capacitive touch screen, 1 x Xadow GSM breakout board. 5 x FFC 35-pin cables, 1 x 520mAh battery, 2 x Kraft paper cases, rivets for Kraft paper cases, 1 x user guide.

£51.00 **Order code 75-0590**

Grove Smart Plant Care Kit for Arduino Compatible Boards

- Build a simple but functional control system
- Monitor environmental
- parameters · Expand the system as
- vour confidence grows

Included in the Smart Plant Care Kit: Grove - Base Shield: The expansion board to

connect Grove modules to your Arduino

Grove - Temp & Humidity Sensor: To measure the temperature and humidity

Grove - Moisture Sensor: To measure the soil moisture Grove - Sunlight Sensor: To measure illumination intensity

Grove - OLED Display 1.12in.: To display parameters

Grove - Encoder: To select and adjust parameters on the display

Grove - Button: To select parameters Grove - Relay: To control the water pump

Grove - Water Flow Sensor: To measure the speed and volume of water flow

12V Water Pump: To pump the water SPACE



Order code 75-0486



Bare Conductive's Electric Paint is just like any other water-based paint, except that it conducts electricity! This means that you can paint wires or sensors directly onto almost any material.

Cold Soldering

Electric Paint can be used as both a liquid wire and an adhesive. Use it to attach components to a range of materials. This is a great alternative to the soldering iron either when you're in a hurry, or working with children!

E RIECTHE PA



Pen (10ml) £5.39 Order code 70-0873



Welleman*



Metal Detector Electronics Kit K7IO2

With this handy Velleman Metal Detector Kit you can find out before drilling whether there are metal objects to be found in a wall, ceiling or floor, so avoiding the potentially catastrophic consequences of drilling into gas or water pipes or through an electric cable.



Classic TV Tennis Game with Analog Bats MKI9I

A modern adaptation of the classic 'tele tennis' TV game: – build the kit then play the game.

Each player has his own bat with rotary potentiometer for ultra-fast bat movement. The game has 5 single-player levels, 5 two-player levels, 3 ball angles, smash function and game play sound.



Ultrasonic Distance Radar Detector Parking Radar Kit K3502

The Velleman Parking Radar Kit can help you manoeuvre your car into the tightest space. Using ultrasonic sound waves, whose frequency is beyond the range of human hearing, this kit means you can measure the distance between your car and nearby obstacles.



FM Radio Kit MKI94

This FM Radio Kit from Velleman will give you double the fun of learning to build and then listening to the FM radio. Suitable for beginners with little or no previous knowledge of electronics.

Universal Start/Stop Timer with Delay up to 60 Minutes K2579

The Velleman Universal Stop/Start Timer Kit enables you to make a miniature timer suitable for any application which requires a delay of up to 60 minutes. The control range is fully adjustable.

LCD Digital Message Board (Programmable) K8045

The LCD Digital Message Board (Programmable) from Velleman enables you to add an LCD display to any low-tech application and make it look high-tech – replace up to 9 indicators or lamps with this single backlit LCD.





Classical Piano Kit

This kit enables you to build a miniature classical piano to create your own melodies. The piano is able to play both elements of a chromatic scale. Alternatively it is pre-programmed with 15 registered melodies for your enjoyment.

 Suitable for Key Stage 4 (ages 14 to 16)

Requires 3x AAA batteries (not included).





16 LED Christmas Tree Kit Dimensions 60 x 100 x 25mm USB SMD Christmas Tree Kit Dimensions 63 x 57mm

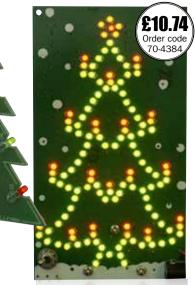
3D Christmas Tree Kit Dimensions

80 x 88 x 102mm



Riding Santa Kit Dimensions

145 x 80mm



Deluxe Christmas Tree Kit Dimensions 143 x 81mm





LED CHRISTMAS TREE PROJECT KIT

A kit of parts for a simple to build festive project

Only

£4.19

Order code 70-1000

NEW

UP Mini 2 Affordable, Portable, Reliable





The UP Mini 2 is the newest addition to the UP family of 3D printers. It takes many of the best features of the original UP Mini, the ever-popular UP Plus 2 and the larger UP BOX and packages them all into a small, neat and portable machine.



The UP Mini 2 uses 500g spools of PLA, ABS or ABS+ filament which are housed in a separate case which also acts as a tool storage tray.

UP 3D printer
2 x500g PLA, ABS and ABS+ Filament
From only £33.59
visit www.rapidonline.com





3D printing made easy

£791.99

Order code 25-0500



Only £23.99

visit www.rapidonline.com

With the most innovative technology right in your home, you can unlock the creativity within your whole family. Easy to use straight out of the box, you're ready to start building anything you need, anything you want, or anything the world has been waiting for.











Uses any 1.75mm ABS or PLA filament

USB 3D Printing Pen with OLED

with OLED Display



Paradime 1.75mm PLA Multipack of 13 Colours

• 1m lengths

£1.03

Order code 25-0039

OLED

Unload filament • button

Load filament ∙ button

130 to 240°C temperature range

Ceramic 0.6mm

Supplied with:

- Mains adaptor
- USB cable
- Three small starter rolls

Variable → temperature control

Variable
speed
controlle

£44.09

Order code 25-0150



4200-4/75 EZ Wrap Multi Tool with 4 Attachments + 75 Accessories

The Dremel 4200-4/75 kit includes the top of the line Dremel 4200 with EZ Change, the world's first accessory quick-change system for Multi-Tools.



£124.79Order code 85-0528



- Variable speed: 10,000 to 33,000rpm:
- more comfortable and better control when handling
- Collet lock: for assisting accessory changes
- Innovative EZ Twist Nose Cap: no wrench required for changing accessories
- Integrated hanging hook: for hanging the tool on the Tool holder or near the project
- Replaceable brushes
- 130W motor: for optimal performance
- Soft grip: for reduced vibration and a better handling

£44.99Order code 85-0547

Workstation Drill Stand £32.94
Order code 85-0409



DREME





Zyklop Mini Bit Check PH/ PZ/TX/Hex, 10-Piece Set

Ideal for difficult screwdriving jobs in sheet steel or metal.

• Bit length: 25mm

Set includes 1 each of the following bits: Hex-Plus 4mm, 5mm, Torx TX15, TX20, TX25, Phillips PHI, PH2; Pozidriv PZ1, PZ2

£19.98

Order code 54-6474







6-Piece ESD Kraftform Micro Screwdriver Set

This set from Wera includes 6 Kraftform Micro ESD screwdrivers with slotted and Phillips blades suitable for use in a variety of electronic applications.

Set includes 1 each of the following Phillips PH0 x 60mm, PH1 x 80mm; slotted 0.3 x 15 x 40mm, 0.25 x 12 x 40mm, 0.3 x 18 x 60mm, 0.4 x 25 x 80mm.

£19.19 Order code

54-7139









Advent Calendar 2016

Concealed behind every one of the 24 doors you will find a Wera product ranging from workshop screwdrivers to a selection of Phillips, Pozidriv or slotted bits. There is even a special Wera bottle opener to ensure you can really get into the spirit when Christmas Day arrives

£44.99

Order code 86-7777

James



SAME DAY DESPATCH Order before 7pm Monday-Friday for same day despatch of in stock items NO MINIMUM ORDER VALUE UK mainland only

M0612 10-16

Orderline: 01206 751166 Fax: 01206 751188 Email: sales@rapidonline.com Rapid, Severalls Lane, Colchester, Essex CO4 5JS

E&CE. All content and images are subject to copyright and cannot be reproduced in any form without the express permission of Rapid Electronics Limited. Prices may vary, see website for up-to-date prices. For full terms & conditions visit www.rapidonline.com/terms

For more information on products featured visit:

www.rapidonline.com