Smart Engineering
Design smarter with products and solutions from RS
Design smarter, with products and solutions from RS

State-of-the-art components, plus the tools to help integrate them into your designs

RS brings you the latest innovations from leading brands like Raspberry Pi, Arduino, Intel, RS Pro, TE connectivity, & Molex. So whether you are developing IoT nodes or advanced robotics systems, you can incorporate the most up-to-date components and create intelligent solutions that set new standards in performance, efficiency and reliability.

Choose RS as your one-stop supplier for all your electronics components, and you will benefit from our massive choice of products, effortless ordering and rapid delivery. So you can get everything you need, right when you need it.

Extend your creative boundaries and speed up product development

Our online resource centre DesignSpark gives you free access to a range of specialist tools, like our PCB design software and parts library – helping you to accelerate the development cycle and bring your products to market faster. And you can connect with the DesignSpark community to share ideas and find new inspiration.

To be a smarter designer, visit au.rs-online.com today.
The Internet of Things (IoT) is now a well-established concept and it’s already a major influence on many of the products we offer at RS.

Applications for IoT technology fall into two distinct groups. The first are those used by electronics designers, envisioning and creating connected or ‘smart’ devices, vehicles or buildings. These customers depend on us for access to the latest ideas and new technology such as innovative wireless and Ethernet modules and chipsets.

The second group are those used by industrial engineers, who need IoT parts and devices because now working with technology that uses (or needs to be upgraded to) IoT connectivity.

Intelligent design

We can help design engineers by offering quick and easy access to the widest choice of WiFi, Ethernet and IoT gateway development boards in the market. These enable them to apply connectivity to existing electronics projects in a process that’s structured, secure and - most importantly - simple.

They also find inspiration in our DesignSpark community, where they can source reference designs, join discussions and seek expert views.

Making connections

To help industrial engineers update and connect their systems and machinery, we’re continually expanding our portfolio of IoT solutions.

For example, many businesses have huge amounts of production data trapped inside existing systems. IoT gateways can access this data, enabling it to be unlocked and shared. These gateways are vitally important because industrial automation systems and IT infrastructures are complex, expensive assets. Companies can’t simply throw them out and replace them with new smart versions.

We offer a suite of products that can release this data and harness it within ERP systems so that it becomes part of the organisation’s “big data” as it evolves into the world of IoT.

Visit us online at au.rs-online.com/IOT for more information.
Small in size big on performance

At RS we have everything you need to get started with your Raspberry Pi. From kits & bundles to accessories that will help you expand the existing functionality of your Raspberry Pi or learn how to implement the latest technologies into your next project or design.

Raspberry Pi 3 Model B
- 802.11 b/g/n Wireless LAN
- Bluetooth 4.2 (Class 2 Low Energy)
- Dual core Valtosca IV Multimedia processor

Raspberry Pi 2 Model B V1.2
- BCM2837 System on Chip [SoC] runs at 900 MHz
- Ten times the processing power compared to original Pi models
- Quicker startup

Raspberry Pi 3 Premium Kit
- This kit brings together some of our most popular Raspberry Pi accessories into one kit
- It has everything required get the Raspberry Pi working
- Included micro-SD card has NOOBS software pre-installed

Pi LCD Touch Screen — 7 inch Raspberry Pi Touchscreen
- Multi-touch capacitive touch screen
- 7 inch display
- 800 x 480 pixel resolution at 60 frames per second (fps)

Raspberry Pi Camera Module V2
- High-quality imaging
- High data capability
- 8 megapixel fixed focus (includes small focus adjustment tool)

Raspberry Pi 3 Premium Kit

Visit au.rs-online.com/electronics

Raspberry Pi 3 Starter Kit
- Powerful single-board computer
- Made in Japan
- Made in UK
- Bulk

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- Powerful credit-card sized single board computer
- Made in Japan
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Pi Top CEED Pro
- Available in green or grey
- Optimised for Raspberry Pi 3 (not included)
- Slim form factor

Raspberry Pi Case - White
- Made of ABS plastic
- Waterproof
- Rubber feet
Arduino / Intel

**Arduino Uno Development Board**
- Atmega 16U2 programmed as a USB to serial converter
- 14 digital I/O pins
- 6 analogue inputs

**Arduino Uno Starter Kits**
- The kits are available in 5 language versions
- The Arduino Starter Kit uses the Arduino Uno as a main board
- Atmega 328 microcontroller

**Arduino Uno WiFi Development Board**
- Integrated WiFi module
- ATmega32U2 with an Arduino WiFi feature
- Support of OFS (Over-the-air) programming

**Arduino Industrial 101**
- Includes WiFi connectivity
- Linino operating system
- Enables you to develop IoT applications

**TinkerKit Braccio - Arduino Controlled Robotic Arm**
- Fully operational robotic arm
- Controlled using your Arduino board
- Supplied with Braccio servo shield

**Arduino Uno WiFi**
- UNO with Integrated WiFi
- Ideal for wireless and IoT

**Arduino Controlled Robotic Arm**
- Maximum operating distance: 80 cm
- Maximum Height: 52 cm
- Base Width: 14 cm

**Arduino Ethernet shield 2 without POE**
- W5500 ethernet chip
- Dimensions: 2.7 x 2.1 ins
- MicroSD card slot/card reader

**Arduino Robot with ATmega32U4**
- The Arduino Robot is a great, fun platform for you to learn about robotics
- Consists of two boards: a control board (with a variety of on-board sensors) — ideal for beginners to programming, and a motor board — for the more experienced programmer

**Genuino 101 Development Board powered by Intel**
- Powered by the Intel® Curie™ microcontroller
- -32-bit Intel® Quark™ microcontroller
- -384 kB flash memory
- -80 kB SRAM

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**RealSense R200 Development Kit**
- Up to 3.5 m indoors, longer range outdoors
- Depth/IR: up to 640 x 480 resolutions at 60 fps
- RGB: 1080p at 30 fps
- USB 3.0 port required

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Intel RealSense R200 Development Kit
- Up to 3.5 m indoors, longer range outdoors
- Depth/IR: up to 640 x 480 resolutions at 60 fps
- RGB: 1080p at 30 fps
- USB 3.0 port required

**Obsolescence Manager**
- A free engineering resource specifically built to proactively manage component obsolescence risk across the RS range, providing alternative solutions to component’s problems.

**Mechanical Software**
- Design and make things in 3D like never before. DesignSpark Mechanical is a free mechanical CAD software, which enables users to any rapidly prototype physical object.

**ElectricalSoftware**
- DesignSpark Electrical is our free electrical CAD solution for engineering professionals looking to save time and create error-free designs.

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**How can DesignSpark help you?**
- Read the latest blogs, news, hacks and reviews from the DesignSpark community of engineers from over 200 countries.
- Download unrestricted, easy to use and free of charge design software to help you with your next rapid prototyping project.

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**DesignSpark is a complete design ecosystem from RS Components to help you unleash your innovation.**
- Read the latest blogs, news, hacks and reviews from the DesignSpark community of engineers from over 200 countries.
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Service crimp tool for HAN connector

- The crimping tool offers optimal crimp quality and features a rotating locator.
- For service and small assembly, the service crimp tool is offered complete with locator.

Han(R) 6P+E socket insert,35A 250690V

- 35A current rating
- Robust; 6P+E, same contacts, Mount
- Removable, offering flexible options

GDS A crimp tool

- A range of tools suitable for use with the DIN 41612 series Types D, E, F, FM and HM of connectors which require crimp contacts.
- Unique removable connection which allows for correct mating, first time, every time
- Features a rotating locator.

RS Pro USB-C Connector

- A Type-C male to Type-C male USB cable, ideal for connecting mobile devices with a USB-C socket to a PC or laptop that has a traditional USB-A type socket.

USB Cable Assembly Male

- 2.54 mm or 2.84 mm between rows
- Can be quickly and easily removed and/or changed quickly and easily.
- Switches can be implemented and/or changed quickly and easily.

Fuse Kit

- Double clip fastening mechanism
- Removable compartment dividers
- 10A, 12A, 13A, 20A, 25A, 50A

Inductive Sensor

- EMR compatible
- Multiple outputs including
  - IR: Indication
  - InP: Reed/linear

RS Pressure Transducer - IND series

- Different outputs including
  - IR: Indication
  - InP: Reed/linear
- Operating temperature: -20°C to +125°C

Coaxial Inter Series Adapter Kit

- For interconnection with other series
- Envisage, ideal for relatively low pressure, low flow applications
- Includes 50Ω coaxial series

Prototyping Board

- Practical board for experimental setups and prototypes
- Switches can be implemented and/or changed quickly and easily.
- USB-C port

K Type Thermocouple

- Glass fibre
- Suitable for use with home projects as well as professional applications.
- Unique, reversible connection which allows
  - Various lengths of glassfibre
  - Insulated flat pair cable
- Fast response, welded exposed junction
- Good temperature resistance
- Good performance over a wide range of temperatures

Amphenol 8 Way Cable Mount

- Durable, field-proven design
- Environmental-resistant
- Removable compartment dividers

Amphenol 3 Way Cable Mount

- Single lever type
- Optional for Raspberry Pi 3 (not included)
- 4 Way Male, Female

Amphenol Pole Cable Mount Connector Plug

- Number of Contacts 6 + PE
- Gender: Male
- DIN 41612 series Types D, E, F, FM and HM

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Amphenol 3 Way Cable Mount

- Single lever type
- Optional for Raspberry Pi 3 (not included)
- 4 Way Male, Female

Amphenol Pole Cable Mount Connector Plug

- Number of Contacts 6 + PE
- Gender: Male
- DIN 41612 series Types D, E, F, FM and HM

Fuse Kit

- Double clip fastening mechanism
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Amphenol 3 Way Cable Mount

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- 4 Way Male, Female

Amphenol Pole Cable Mount Connector Plug

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- Gender: Male
- DIN 41612 series Types D, E, F, FM and HM

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<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Voltage</th>
<th>Current</th>
<th>Power</th>
<th>Dimensions</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>262-7727</td>
<td>DC axial fan</td>
<td>12 V</td>
<td>18 W</td>
<td>410 m³/h</td>
<td>38x46x105</td>
<td>Motor stall protection by temperature sensor with automatic reset</td>
</tr>
<tr>
<td>262-7728</td>
<td>AC axial fan</td>
<td>12 V</td>
<td>24 W</td>
<td>482-118</td>
<td>38x46x105</td>
<td>Housing constructed from diecast aluminium</td>
</tr>
<tr>
<td>390-3901</td>
<td>EC centrifugal fan</td>
<td>230 V</td>
<td>39 W</td>
<td>390 m³/h</td>
<td>150x150x38</td>
<td>High efficiency: up to 50% less energy consumption compared to AC solutions</td>
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<tr>
<td>434-9854</td>
<td>Centrifugal fan</td>
<td>12 V</td>
<td>165 W</td>
<td>18 → 28 V</td>
<td>115 V</td>
<td>Suitable for either power or signal applications</td>
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<tr>
<td>810-4129</td>
<td>DC axial fan with grille</td>
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<td></td>
<td></td>
<td></td>
<td>Fan blades are designed for optimal airflow</td>
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<tr>
<td>810-4125</td>
<td>Centrifugal Pump</td>
<td>230 V</td>
<td>50 W</td>
<td>830-3032</td>
<td>802-9440</td>
<td>Supply voltage: 240 V</td>
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<tr>
<td>165-2099</td>
<td>Crimping Tool</td>
<td>18 → 24 V</td>
<td></td>
<td></td>
<td></td>
<td>Fully integrated electronic commutation</td>
</tr>
<tr>
<td>165-2098</td>
<td>Cable &amp; panel plug housing</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Suitable for applications where high currents are required</td>
</tr>
<tr>
<td>165-2095</td>
<td>Dual Row PCB Headers</td>
<td>18 → 24 V</td>
<td></td>
<td></td>
<td></td>
<td>Through hole version: SM compatible</td>
</tr>
</tbody>
</table>

**Materials**
- **Fibreglass-reinforced plastic**
- **Diecast aluminium**
- **Plastic**

**Additional Features**
- **Thermal overload motor protection**
- **Optimised impeller blade design**
- **Ball bearing motor technology**
- **High efficiency up to 50% less energy consumption compared to AC solutions**
- **Fully integrated electronic commutation**
- **Extreme low noise**
- **Crimping Tool Standard**
- **Crimping Tool**
- **Cable & panel plug housing**
- **USB type A to B cable assembly**

**Notes**
- **Sensor with automatic reset**
- **Suitable for 2G/3G/4G/5G applications**
- **Suitable for either power or signal applications**
- **Through hole version: SM compatible**
- ** rond, 0.9 mm**
- **4.8 mm**
- **1.4 mm**
- **3.5 mm**
- **820 mm**
- **3.34 m**
- **5 m**
USB-C Connector
- Backward compatible to other USB connectors using adapters or converter cables
- Provides one interconnectable for data, power and audio/video
- 5th splash-proof version for harsher environments

Temperature & Humidity Sensor
- Individually tested and calibrated
- Individually marked to that compliance
- Fully interchangeable in standard conditions without the need for additional calibration

DIGITAL PRESSURE SENSOR
- Gel-filled design providing an altitude resolution of 13 cm
- Typical applications include fitness trackers, bicycle computers, personal navigation device, multi-sport watches and tyre pressure gauges

PCB Terminal Blocks
- High density compact design
- Screwless terminals for quick assembly without the need for special tooling

Deutsch Crimping Tool DT Series
- Adjustable screw includes jam nut
- Compatible with a wide range of Deutsch connector crimps
- Lightweight and comfortable to use

3 Pole Cable Mount Connector Plug
- Sealed to IP67
- Durable - 100 mating cycles minimum
- Vibration proof - 50g's at 10 - 2000Hz

6 Pole Cable Mount Connector Socket
- Sealed to IP67
- Durable - 100 mating cycles minimum
- Vibration proof - 50g's at 10 - 2000Hz

Need a Quote?
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Contact us to see how much you could save:
1300 656 636
quotesandtenders@rs-components.com

au.rs-online.com
### Electronics Component Brands at a Glance

**Our Electronics components brands at a glance**

Every technology — and who supplies them

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<th>Component Category</th>
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<th>Product</th>
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<td>Fuses – PCBDIP &amp; SIP</td>
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<td>Solid State Relays &amp; Accessories</td>
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We bring you the newest technologies and latest innovations from the world’s foremost electronic component manufacturers

Find what you need at: [rs.co/electronics](rs.co/electronics)
Be certain with genuine parts from 2,500 trusted global brands.

Order parts in industry standard production-ready packaging.

RS ELECTRONICS LINECARD

When you’re designing for the future, only the best brands will do.

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From prototyping to production, RS delivers the latest products that help you transform your idea into reality.

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