Accelerate Your Innovation
From Prototype to Production
Your Application Begins with Farnell

Farnell stocks and sells a wide assortment of single board computers (SBCs) and development boards, as well as HATs, shields, capes and accessories to extend their functionality.

Single Board Computers

An SBC is defined as a “complete computer on a board.” It features an operating system, inputs and outputs, a microprocessor, and memory. More often than not, the board has no moving parts, such as a fan, making it very reliable. An SBC is a great solution where a project requires the capability of a full computer, but with a smaller footprint.

Industrial applications vary, but examples include IoT applications, kiosk and training displays, process and control automation, and many more.

The need for these boards continues to grow, as more and more projects revolve around SBCs and dev boards. Following this need, the selection in the market is also rapidly expanding. Navigating the world of these boards can be intimidating. Use this guide to help identify the best solution on which to base your industrial project.
Customisation Services

Element14’s Product Customisation service is ideal for taking your SBC based designs or prototypes to market.

As manufacturers of the Raspberry Pi and BeagleBone® Black, you can leverage our design know-how and existing manufacturing volumes to produce cost optimised products, getting your designs to market faster.

Design platforms include:

- Raspberry Pi*
- BeagleBone® Black
- Warp7
- Any other ARM or x86 based designs

*element14 is the Exclusive provider of Raspberry Pi Customisation Services

Common customisation requests include:

- Memory upgrades/ embedded flash
- Wireless connectivity addition/upgrade – Zigbee, WiFi, Z-Wave, Sub-GHz ISM
- User interface/ HMI Design
- PCB layout, header & interface modification
- GSM, LTE modem Inclusion
- Emerging IoT protocols – (LoRaWAN, etc)
- And many more, including complete design modifications

Design Services

As specialists in the design and development of electronic systems, our expertise in hardware design and embedded software development has helped element14 become a trusted design partner to many of the world’s leading semiconductor, medical, aerospace, military, automotive, industrial and consumer markets.

Hardware Design

- Embedded design
- MCU/MPU based SBCs and modules
- Wireless (BT, WiFi, 802.15.4, ISM, RFID)
- Analogue, sensing, motor control
- HMI interface
- Wireless power
- Power conversion
- Battery operation and charging
- Harsh environment
- Hazardous location
- Wireless HART
- FPGA design and implementation
- ASIC conversion

PCB Design

- Application and driver development for OS such as Windows and Linux

Simulation & Verification Services

- CAM verification/Gerber edits and checks
- Digital simulation for signal integrity
- Thermal simulations

Software Development

- Embedded firmware development and integration
- Control, I/O processing, communication and GUI

element14.com/design-services
Certifications & Standards
We'll help you design, test and obtain certification for a broad array of standards & regulations, including:
- CE, FCC, R&TTE, UL, FM, shock, vibration
- MIL, ITAR
- Automotive
- FM, CSA, ATEX, and IEC for Haz-Loc, explosion proof
- FCC Part 68 (modems), USB, PCIe, VISA, HART
- RoHS & REACH

Superior Quality
Quality manufacturing is ensured through rigorous and standardised processes and proven EMS partners.
- World-class manufacturing capabilities – ISO9001 certified
- Industrial & Automotive qualified EMS
- On-site production engineers
- Rigorous NPI management & introduction process
- SIPOC quality control process

Value Added Customer Service
Our dedicated staff in the US, EU and APAC will assist your teams wherever they reside.
- Dedicated program management team
- Comprehensive global supply chain
- Inventory management
- Custom enclosures
- Packaging solutions including manuals & user guides

Electronic Manufacturing Services
We provide medium/high-volume manufacturing services to the world’s leading semiconductor manufacturers and consumer, medical, aerospace, military, automotive, industrial and consumer customers.

SMT Lines | 25
---|---
High Speed Lines | 13
Labourers | 2,420
Quality Control Staff | 197
CEM Partners | 4
Total Space | 28,300
Compliance | ISO9001, TS16949, ISO13845, ISO14001 EHS system
Raspberry Pi 4 Computer
The most powerful Raspberry Pi. Ever.

The Raspberry Pi 4 Model B boasting a 64-Bit quad-core processor running at 1.5GHz, dual-display support at resolutions up to 4K at 60fps, up to 4GB of RAM, dual-band 2.4/5.0 GHz wireless LAN, Bluetooth 5.0/BLE, True Gigabit Ethernet, USB 3.0, and PoE capability (via a separate PoE HAT add-on).

- Faster Processor
- Memory Flexibility
- More Power Delivery
- 4K Dual-Display
- Improved Connectivity
- Extended GPIO

Harness the power of the Raspberry Pi within embedded applications.

Designed for developing embedded applications, the Raspberry Pi Compute Module 3+ Development Kit simplifies the design process, saving time by providing you with everything you need to start your designs. The kit is a complete, time-saving solution for starting your design.

Features: BCM2837B0 quad-core processor @ 1.2GHz, 1 GB RAM options, 8/16/32 GB eMMC Flash, 120 GPIO pins, an HDMI port, a USB port, two camera ports, and two display ports.

element14.com/raspberrypi

Raspberry Pi Compute Module 3+
Development Kit
Raspberry Pi is the most popular SBC, and has seen many model revisions since inception. Its most redeeming feature is sure to be the low cost, but it packs a punch, making it a great value in today’s SBC market.

Recent models run on a quad core ARM Cortex processor at higher clock speeds than much of the competition. An official selection of Foundation supported accessories is available, while a large following ensures support for nearly any type of project.

Raspberry Pi

Raspberry Pi is the most popular SBC, and has seen many model revisions since inception. Its most redeeming feature is sure to be the low cost, but it packs a punch, making it a great value in today’s SBC market.

Recent models run on a quad core ARM Cortex processor at higher clock speeds than much of the competition. An official selection of Foundation supported accessories is available, while a large following ensures support for nearly any type of project.
Raspberry Pi Add-on Listing

An SBC or dev board is a great start to your next project, but it won’t always have all the functionality needed. Explore the latest range of HATs and accessories to extend the capabilities of the Raspberry Pi.

- **4D Systems 2.4” Display**
  - Application: Display
  - Interface: HAT
  - Order Code: 2454984

- **Raspberry Pi Camera NoIR**
  - Application: Photo/Video
  - Interface: DSI
  - Order Code: 2510729

- **PiJuice**
  - Application: Power
  - Interface: HAT
  - Order Code: 2671595

- **Pi Face Digital 2**
  - Application: Sense and Control
  - Interface: HAT
  - Order Code: 2434230

- **Pi Face Real Time Clock**
  - Application: Real Time Clock
  - Interface: Shim
  - Order Code: 2434226

- **Pi Face Sense HAT**
  - Application: Sense and Control
  - Interface: HAT
  - Order Code: 2483095

- **Pi Supply Flick HAT**
  - Application: Touch/Gesture
  - Interface: HAT
  - Order Code: 2687144

- **Pi Supply Flick Large HAT**
  - Application: Touch/Gesture
  - Interface: HAT
  - Order Code: 2687143

- **Pi Supply Flick Zero HAT**
  - Application: Touch/Gesture
  - Interface: HAT
  - Order Code: 2687145

- **Pi Supply Flick Zero HAT**
  - Application: Touch/Gesture
  - Interface: HAT
  - Order Code: 2687145

- **PoE HAT**
  - Application: Interface: Power Over Ethernet
  - Order Code: 2945677

- **Pi Supply Flick Large HAT**
  - Application: Touch/Gesture
  - Interface: HAT
  - Order Code: 2687143

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  - Application: Real Time Clock
  - Interface: Shim
  - Order Code: 2434226
Raspberry Pi Customisation Service

Re-configure the board layout
Incorporate additional functionality onto the PCB
Add / remove headers and connectors
Change configuration
Add / remove interfaces

Find out more:
element14.com/custompi
Meet the Beagles:
Open Source Computing

BeagleBoard.org®
BeagleBone® AI

BeagleBone® AI is a high-end Single Board Computer aimed at developers interested in implementing machine-learning and computer vision with simplicity.

element14 BeagleBone® Black
INDUSTRIAL

element14 BeagleBone® Black Industrial answers the need for an industrial rated SBC with extended temperature range. The element14 BeagleBone® Black Industrial is also software and cape compatible with the original BeagleBoard.org® BeagleBone® Black.

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Pocket Beagle</th>
<th>BeagleBone® Blue</th>
<th>BeagleBone® Black Rev C</th>
<th>BeagleBone® Black Wireless</th>
<th>BeagleBone® Black Industrial</th>
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</table>

element14.com/Beagleboard
BeagleBoard.org® BeagleBone®
Capes and Accessories

Capes are daughter-board add-on products for the BeagleBone®-family. Each extends the functionality of your BeagleBone® for new exciting capabilities.

**BeagleBoard.org® Robotics Cape**

Everything needed for mobile robotics. Loaded with innovative features and a comprehensive software library designed to effortlessly take your robotics concepts from design to reality. A huge array of on-board sensors and controllers and even more expansion options give you everything you need for your robotics project.

Order Code: 2612581

**4.3” Touchscreen Display Cape**

4.3” Capacitive Touchscreen Display Cape for BeagleBoard.org® BeagleBone® family. Featuring a vivid 4.3” LED backlit 480 × 272 TFT LCD with capacitive overlay for smartphone-like input. Plug-and-play display solution, no drivers required. Perfect for interactive projects, embedded systems and standalone installations.

Order Code: 2526164

**Wireless Connectivity Cape**

Add wireless functionality to your existing BeagleBoard.org® BeagleBone® Black. This Cape is all about connectivity and supports WiFi (2.4GHz and 5GHz), Bluetooth (Classic and BLE), ZigBee, RF4CE, and NFC. Integrated antennas ensure constant connection and multiple headers are available for development and debugging.

Order Code: 2478611

**5MP Digital USB Camera Module**

CAM8200-U is a 5-megapixel USB digital camera module designed by Embest Technology. Featured with automatic focus, white balance, exposure control and gain control.

Order Code: 2444567
Arduino

Open Source Electronics Platform

Arduino is an open-source electronics prototyping platform based on flexible, easy-to-use hardware and software.

Arduino Maker Family

The Arduino MKR family has been specifically designed with a new standardised modular form factor that streamlines the journey from prototype to small-run production.

The Arduino MKR family currently supports most short and long-range wireless protocols (e.g. Wi-Fi, Sigfox, LoRa, and 3G/2G); each board also offers ultra low power consumption, while most are equipped with an encryption accelerator for secure communication.

MKR Vidor 4000
Arduino Vidor 4000 is the first Arduino to feature an FPGA processor, all in the familiar MKR form factor.
Order Code: 2917571

MKR WiFi 1010
Arduino MKR WiFi 1010 is the evolution of the Arduino MKR1000 and is equipped with an ESP32 module made by U-BLOX.
Order Code: 2917569

MKR Wan 1300
Arduino MKR Wan 1300 is a powerful board that combines the LoRa connectivity with the MKR form factor.
Order Code: 2851778

MKR Fox 1200
Arduino MKR Fox 1200 is a powerful board that combines the Sigfox connectivity with the MKR form factor.
Order Code: 2830994

element14.com/Arduino

farnell.com
<table>
<thead>
<tr>
<th>Model</th>
<th>CPU Speed</th>
<th>Processor</th>
<th>Operating Voltage</th>
<th>Input Voltage</th>
<th>Ethernet</th>
<th>WiFi</th>
<th>Bluetooth</th>
<th>GPIO Pins</th>
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</tr>
</tbody>
</table>

* 25 Mini PCI Express

element14.com/Arduino
Particle
Everything You Need to Empower IoT

The new all-in-one IoT platform, from device to cloud.

Get started in minutes
Say “Hello, World” to Device OS
Built to scale

Argon WiFi Mesh
A Wi-Fi enabled development board that can act as either a standalone Wi-Fi endpoint or Wi-Fi enabled gateway for Particle Mesh networks.
Order Code: 2965719

Boron LTE/3G/2G Mesh
A powerful LTE CAT-M1/NB1 enabled development kit that can act as either a standalone cellular endpoint or LTE/3G/2G enabled gateway for Particle Mesh networks.
Order Code: 2965720
The Things Network

Build Your Own Fully Distributed Internet of Things LoRaWAN Data Infrastructure

The Things Network is about enabling low power Devices to use long range Gateways to connect to an open-source, decentralised Network to exchange data with Applications.

The Things Gateway

The main building block of the network. Compact in size and easy to install. With the three steps process you can get up and running with the network in less than 5 minutes.

Order Code: 2675813

element14.com/TTN

The Things Uno

The Things Uno is the perfect board to start prototyping your IoT ideas or make an existing project wireless with up to 10km range by simply swapping boards.

Order Code: 2675815

The Things Node

The Things Node is the perfect LoRa node to start prototyping your ideas without having to deal with bread boards, wires and sensors.

Order Code: 2675817
The new Avnet SmartEdge Industrial IoT Gateway has been designed specifically to aid those interested in developing industrial automation applications such as, remote monitoring, predictive maintenance, process control and automation and it will support Avnet’s IoT Connect platform to enable cloud connectivity to Microsoft Azure.

- Powered by Raspberry Pi
- Quad-Core ARM Based Platform
- Reliable Industrial Connectivity
- Comprehensive Data Security
- Free 30-Day IoT Connect Trial
- Easy Configuration
- Real-Time Data Visualisation
- Rugged Hardware Platform

Applications:

<table>
<thead>
<tr>
<th>Applications</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SMART FACTORY</td>
<td>Predictive analysis to take production line monitoring beyond just automation.</td>
</tr>
<tr>
<td>SMART ASSET MONITORING</td>
<td>Track and monitor your assets used in your business remotely.</td>
</tr>
<tr>
<td>SMART BUILDING</td>
<td>Real-time and modern monitoring solution for your facilities.</td>
</tr>
<tr>
<td>SMART RETAIL</td>
<td>Enhance customers’ shopping experience by merging the digital world with the real world.</td>
</tr>
</tbody>
</table>
Symbisa
Mobile IoT Sensing Kit

The Symbisa sensing kit combines a variety of sensors and GSM modems coupled with a secure global communication network.

This allows development of an easy-to-implement, truly plug-and-play global mobile sensing solution that displays data directly into an Excel worksheet.

Ultra96™ is an Arm-based, Xilinx Zynq UltraScale™ MPSoC development board based on the Linaro 96Boards specification.

Using programmable logic to accelerate the development of machine and deep learning solutions, Ultra96 enables breakthroughs in artificial intelligence technology.
Azure Sphere MT3620 Starter Kit

An end-to-end solution for securing microcontroller based smart things.

The Avnet Azure Sphere MT3620 Starter Kit supports rapid prototyping of highly secure, end-to-end IoT implementations using Microsoft’s Azure Sphere. The small form-factor carrier board includes a production-ready MT3620 Sphere module with Wi-Fi connectivity, along with multiple expansion interfaces for easy integration of sensors, displays, motors, relays, and more.

Features:

- Processor: Azure Sphere MediaTek MT3620AM tri-core SoC Module
- Connectivity: Dual-band 2.4/5GHz 802.11 a/b/g/n WiFi
- Security: Microsoft security
- Interface: USB, GPIOs, UART, SPI, I2C, ADC, PWM, RTC, OLED 128x64 display
- Expansion: MikroE Click board & Grove expansion connectors
- On-Board Sensors: 3-Axis accelerometer with gyro and multiple environmental sensors
- Power: 5V DC

SKU: 3106884

element14.com/AzureSphere
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