

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.

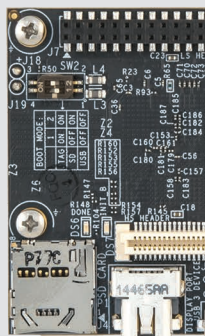
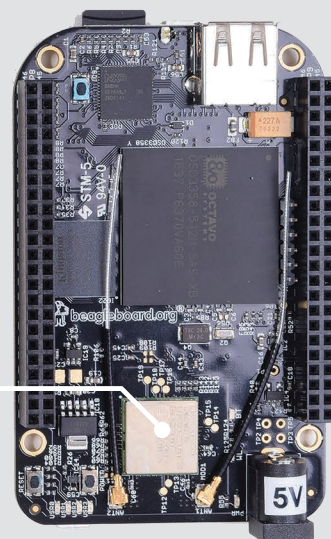
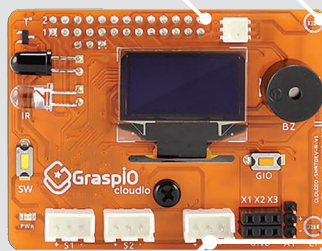
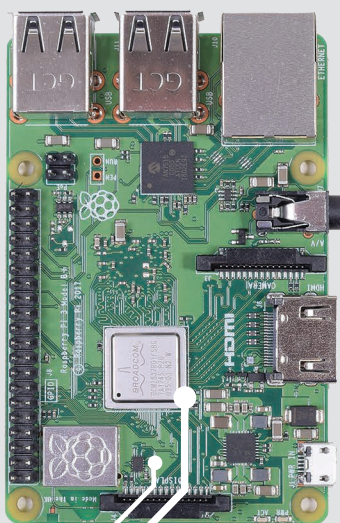
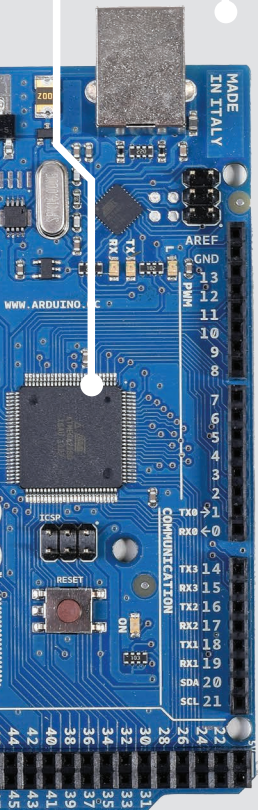
Single Board Computers

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.



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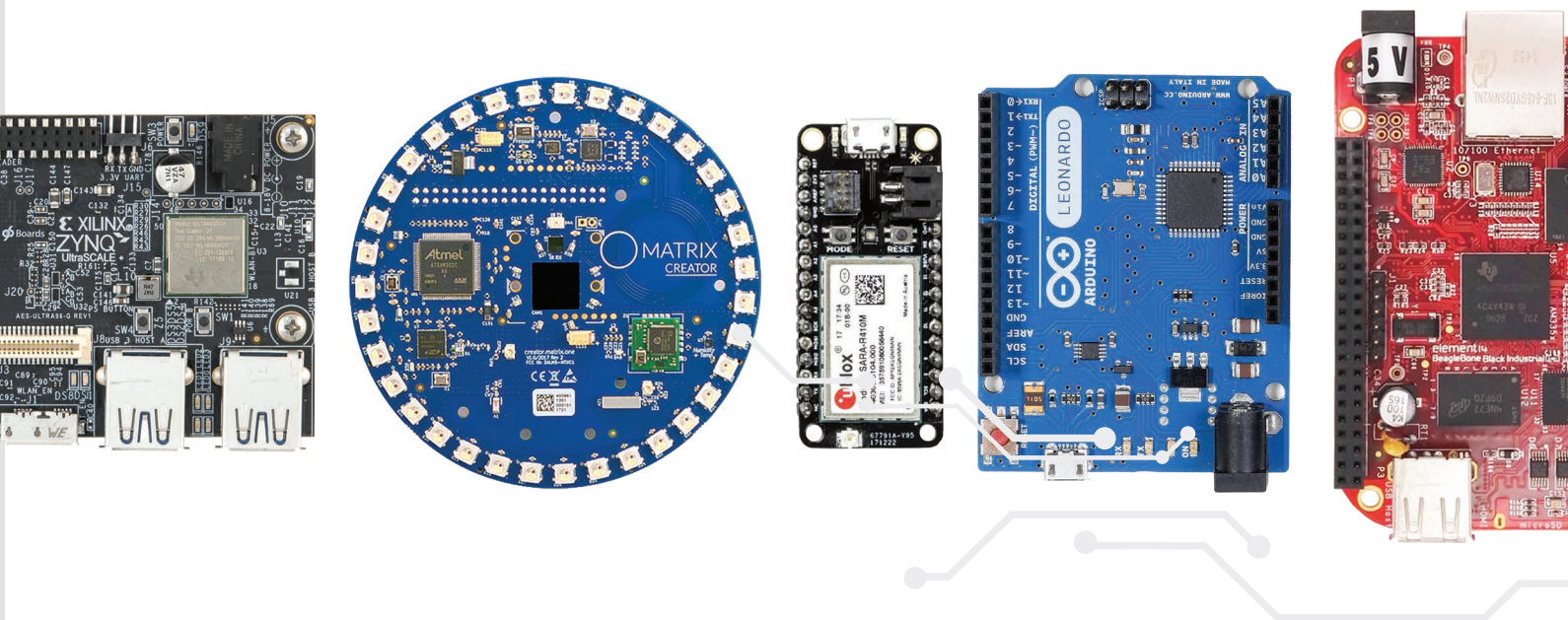
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Customisation Services

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.

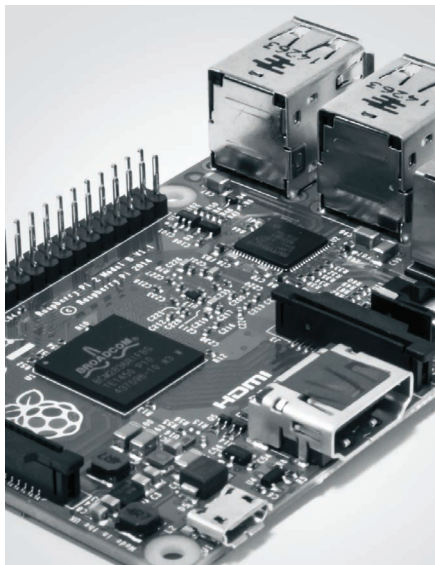
Design platforms include:

- 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

Software Development

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

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

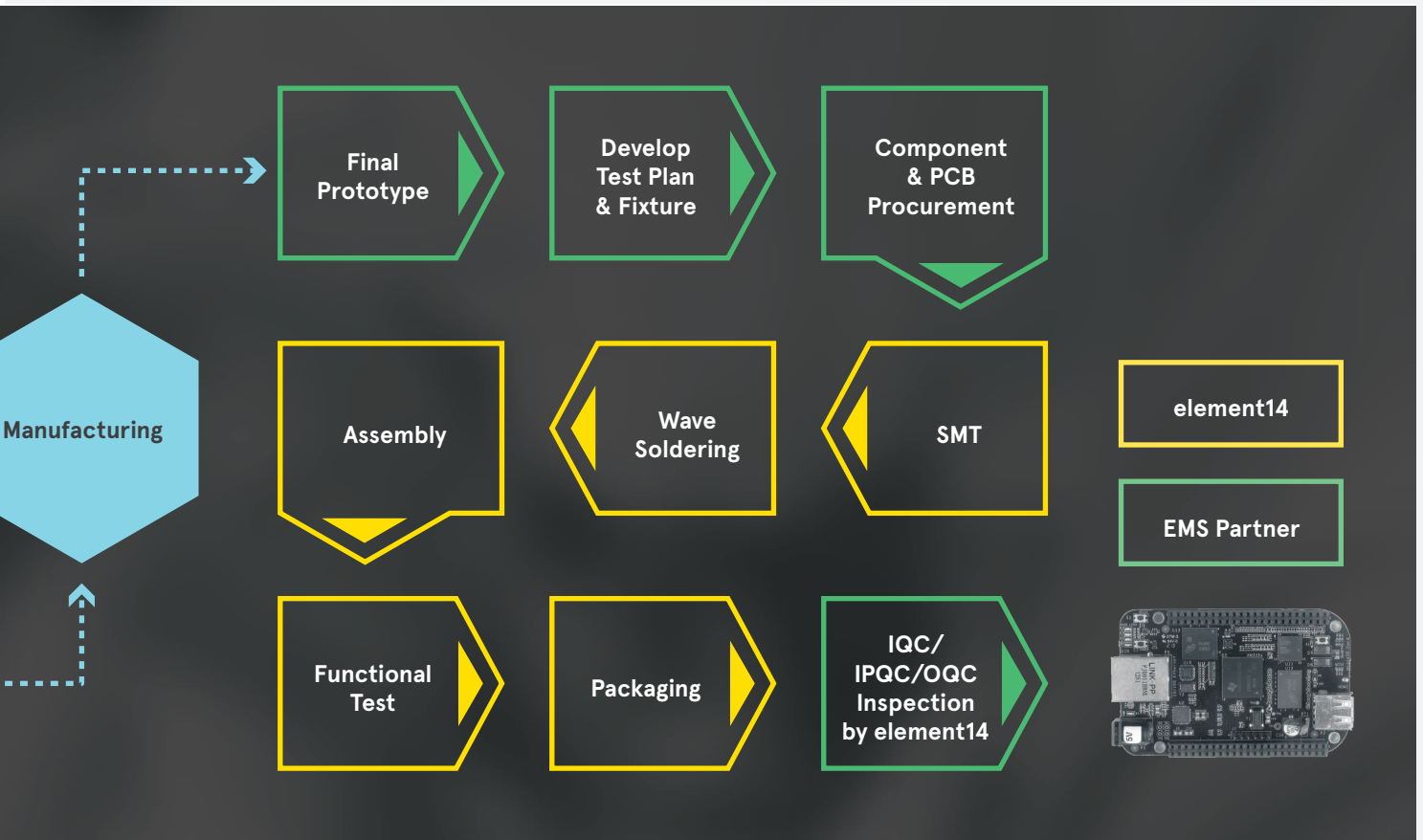
PCB Design

- High-speed digital, analogue, RF, power, mixed signal and other advanced technologies
- Rigid-Flex, HDI, low loss materials, SI planning, pre/post design & fab simulations
- Schematic & database translations, data migrations, library & general CAD support

Simulation & Verification Services

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

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



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.

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.

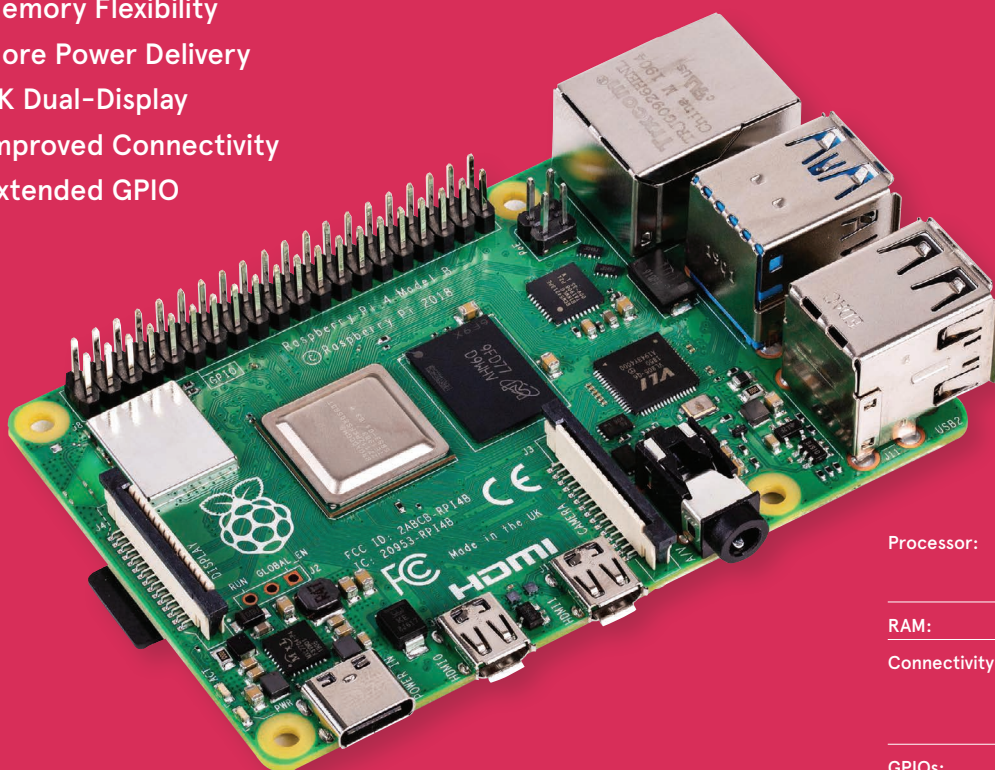
- Dedicated program management team
- Comprehensive global supply chain
- Inventory management
- Custom enclosures
- Packaging solutions including manuals & user guides

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).

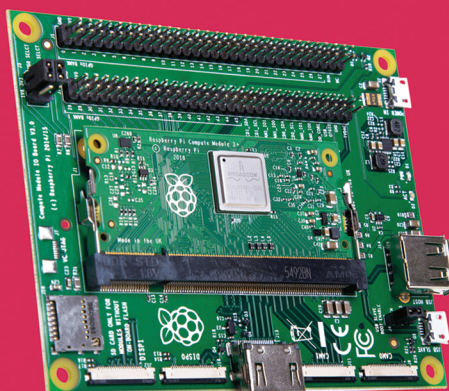
- Faster Processor
- Memory Flexibility
- More Power Delivery
- 4K Dual-Display
- Improved Connectivity
- Extended GPIO



Processor:	Broadcom BCM2711, quad-core Cortex-A72 (ARM v8) 64-bit SoC @ 1.5GHz
RAM:	1 GB, 2GB or 4GB LPDDR4 SDRAM
Connectivity:	2.4GHz and 5.0GHz dual-band wireless LAN, Bluetooth 5.0, BLE, True Gigabit Ethernet, 2x USB 3.0 ports, 2x USB 2.0 Ports
GPIOs:	Fully backwards compatible 40-pin GPIO header
Video & Sound:	Dual micro HDMI with 4K support, MIPI DSI Display port, MIPI CSI camera port, 4-pole stereo audio and composite video port.
Multimedia:	H.265 decode (4Kp60), H.264 decode (1080p60), OpenGL ES 1.1, 2.0, 3.0 graphics

element14.com/raspberrypi

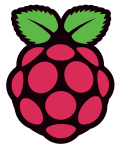
Raspberry Pi Compute Module 3+ Development Kit



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.



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 Model A+	Raspberry Pi 3 Model A+	Raspberry Pi Model B+	Raspberry Pi 2 Model B	Raspberry Pi 3 Model B	Raspberry Pi 3 Model B+	Raspberry Pi 4 Model B	Raspberry Pi Compute Module	Raspberry Pi Compute Module 3	Raspberry Pi Compute Module 3+
Dimensions	65x56mm	85x56mm	85x56mm	85x56mm	85x56mm	85x56mm	88x58x19.5mm	67.6x30mm	67.6x31mm	67.6x31mm
Software	Linux	Linux	Linux	Linux	Linux	Linux	Linux	Linux	Linux	Linux
SoC	BCM2835	BCM2837B0	BCM2835	BCM2836	BCM2837	BCM2837B0	BCM2711	BCM2835	BCM2837	BCM2837B0
Core Arch.	ARMv6	ARMv8	ARMv6	ARMv7	ARM Cortex-A53	ARM Cortex-A53	ARM Cortex-A72	ARMv6	ARMv8	ARMv8
CPU Speed	700MHz	1.4GHz	700MHz	900MHz	1.2GHz	1.4GHz	1.5GHz	700MHz	1.2GHz	1.2GHz
Cores	Single	Quad	Single	Quad	Quad	Quad	Quad	Single	Quad	Quad
RAM	256MB	512MB	512MB	1 GB	1 GB	1 GB	1, 2 & 4 GB	512MB	1 GB	1 GB
Storage	Micro SD	SD Card	Micro SD	Micro SD	Micro SD	Micro SD	Micro SD	4GB eMMC	4GB eMMC	4, 8 & 16 GB eMMC
LAN	-	-	10/100mb Ethernet	10/100mb Ethernet	10/100mb Ethernet	10/100/ 1000mb Ethernet	10/100/ 1000mb Ethernet	-	-	-
Wireless	-	-	-	-	802.11 b/g/n	2.4GHz/ 5GHz	2.4GHz/ 5GHz	-	-	-
Bluetooth	-	-	-	-	4.1/BLE	4.2/BLE	5.0/BLE	-	-	-
GPIO Pins	40	40	40	40	40	40	40	46	46	46
Video Out	HDMI/ 3.5mm/DSI	HDMI/ 3.5mm/DSI	HDMI/ 3.5mm/DSI	HDMI/ 3.5mm/DSI	HDMI/ 3.5mm/DSI	HDMI/ 3.5mm/DSI	Dual micro-HDMI/ 3.5mm/DSI	HDMI/ DSI	HDMI/ DSI	HDMI/ DSI
Audio Out	HDMI/ 3.5mm	HDMI/ 3.5mm	HDMI/ 3.5mm	HDMI/ 3.5mm	HDMI/ 3.5mm	HDMI/ 3.5mm	micro-HDMI/DSI	HDMI/ 3.5mm Analogue	HDMI/ Composite/ Analogue	HDMI/ Composite/ Analogue
USB Ports	1	1	4	4	4	4	2x USB 3.0/2x USB 2.0	1	1	1
Input Voltage	5V	5V	5V	5V	5V	5V	5.1V	5V	5V	5V
Order Code	2536236	2946269	2456986	2612474	2525226	2842228	3051885 3051886 3051887	2427122	2675716	2989464

element14.com/raspberrypi

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: [2456984](#)



PiJuice

Application: Power
Interface: HAT
Order Code: [2671595](#)



AmberPi - sub-1-GHz RF interface

Application: Atmospheric Sensing
Interface: HAT
Order Code: [2889298](#)



Pi Supply Flick HAT

Application: Touch/Gesture
Interface: HAT
Order Code: [2687144](#)



Bitscope Duo

Application: Test and Measurement
Interface: Module
Order Code: [2546577](#)



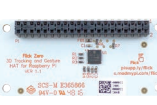
Pi Supply Flick Large HAT

Application: Touch/Gesture
Interface: HAT
Order Code: [2687143](#)



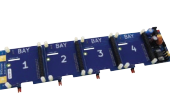
Bitscope Uno

Application: Test and Measurement
Interface: Module
Order Code: [2546576](#)



Pi Supply Flick Zero HAT

Application: Touch/Gesture
Interface: HAT
Order Code: [2687145](#)



Bitscope Quad

Application: Test and Measurement
Interface: Module
Order Code: [2546578](#)



PoE HAT

Application:
Interface: Power Over Ethernet
Order Code: [2945677](#)



GraspIO Cloud.IO

Application: Atmospheric Sensing
Interface: HAT
Order Code: [2612584](#)



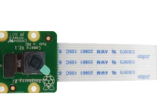
Raspberry Pi Camera NoIR

Application: Photo/Video
Interface: DSI
Order Code: [2510729](#)



Matrix Labs Matrix Creator

Application: Sense and Control
Interface: HAT
Order Code: [2675819](#)



Raspberry Pi Camera

Application: Photo/Video
Interface: DSI
Order Code: [2510728](#)



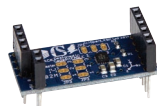
Matrix Labs Matrix Voice

Application: Voice
Interface: HAT
Order Code: [2846912](#)



Raspberry Pi Sense HAT

Application: Sense and Control
Interface: HAT
Order Code: [2483095](#)



Microstack Accelerometer

Application: Accelerometer
Interface: Module
Order Code: [2434229](#)



Raspberry Pi Touchscreen Display

Application: Display
Interface: DSI
Order Code: [2473872](#)



Microstack GPS Module

Application: GPS
Interface: Module
Order Code: [2434228](#)



TE RPi Weather Shield

Application: Atmospheric Sensing
Interface: HAT
Order Code: [2780397](#)



PiFace Real Time Clock

Application: Real Time Clock
Interface: Shim
Order Code: [2434226](#)



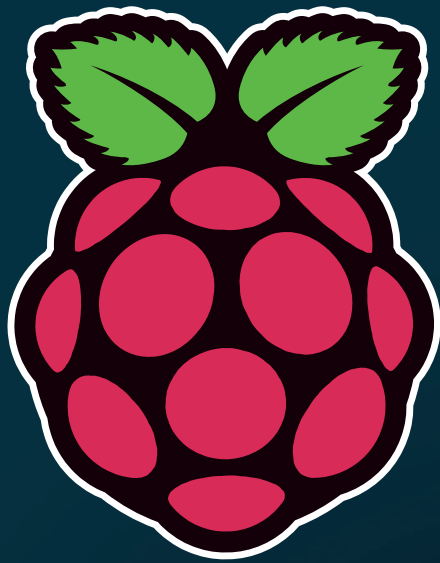
Zymbit Zymkey

Application: Security
Interface: Module
Order Code: [2947716](#)

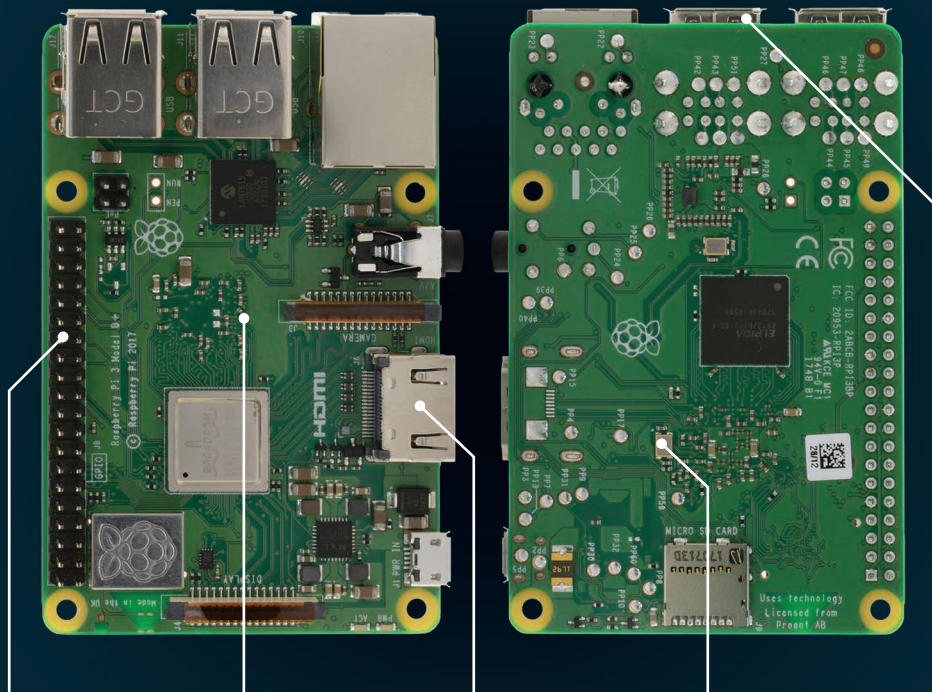


PiFace Digital 2

Application: Sense and Control
Interface: HAT
Order Code: [2434230](#)



Raspberry Pi Customisation Service



**Re-configure
the board
layout**

**Incorporate
additional
functionality
onto the PCB**

**Add / remove
headers and
connectors**

**Change
configuration**

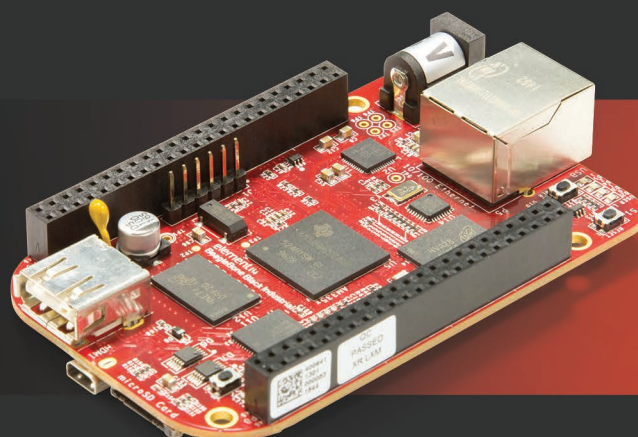
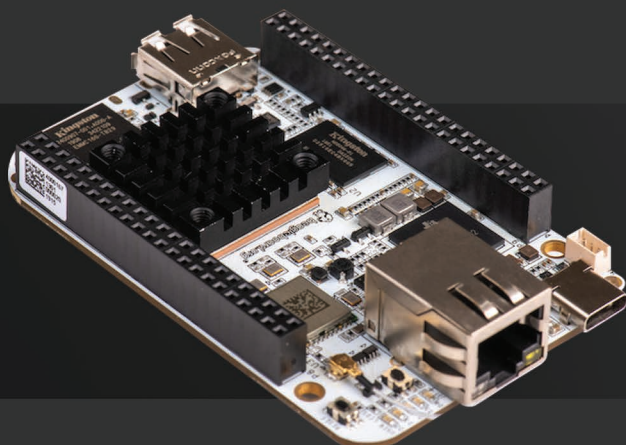
**Add / remove
interfaces**

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

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.

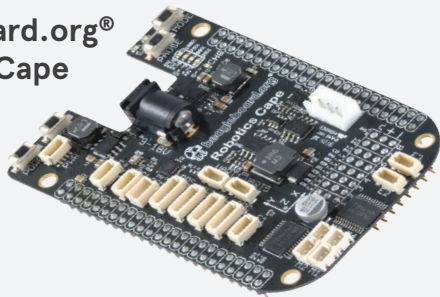
	Pocket Beagle	BeagleBone® Blue	BeagleBone® Black Rev C	BeagleBone® Black Wireless	BeagleBone® Black Industrial	BeagleBone® AI
Dimensions	56x35mm	88.9x54.6mm	86.40x53.3mm	86.40x53.3mm	86.40x53.3mm	86.4x54.6mm
Software	Linux	Linux	Linux	Linux	Linux	Linux
Processor	AM3358	AM3358	AM3358	AM3358	AM3358	AM5729
	ARM Cortex-A8	ARM Cortex-A8	ARM Cortex-A8	ARM Cortex-A8	ARM Cortex-A8	ARM Cortex-A15
CPU Speed	1 GHz	1 GHz	1 GHz	1 GHz	1 GHz	1.5GHz
Cores	Single	Single	Single	Single	Single	Dual
RAM	512MB	512MB	512MB	512MB	512MB	1 GB
Storage	Micro SD	4GB eMMC	4GB eMMC/Micro SD	4GB eMMC/Micro SD	4GB eMMC/Micro SD	16GB eMMC/Micro SD
LAN	-	-	10/100mb		10/100mb	10/100/1000mb
			Ethernet		Ethernet	Ethernet
Wireless	-	802.11 b/g/n	-	802.11 b/g/n	-	2.4GHz/5GHz
Bluetooth	-	4.1/BLE	-	4.1/BLE	-	4.2/BLE
GPIO Pins	72	136	92	92	92	92
Video Out	-	-	HDMI D Type	HDMI D Type	HDMI D Type	micro-HDMI
Audio Out	-	-	HDMI D Type	HDMI D Type	HDMI D Type	micro-HDMI
USB Ports	1 Micro	1	1	1	1	1
Input Voltage	500mA	9-18V	5V	5V	5V	5V
Order Code	2806159	2612583	2422228	2671597	2493088	3132825



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

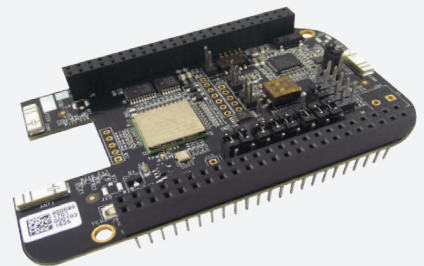


Everything needed for mobile robotics.

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**

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**

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**

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

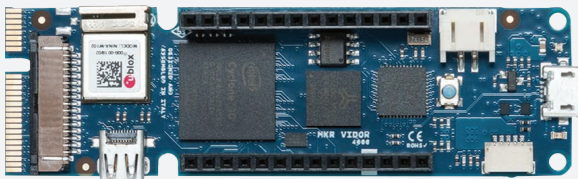
Arduino is an open-source electronics prototyping platform based on flexible, easy-to-use hardware and software.

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.

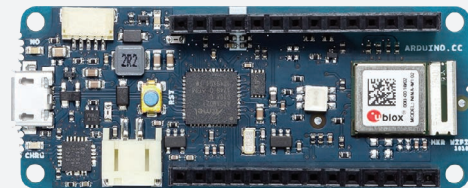
MKR VIDOR 4000



Arduino VIDOR 4000 is the first Arduino to feature an FPGA processor, all in the familiar MKR form factor.

Order Code: [2917571](#)

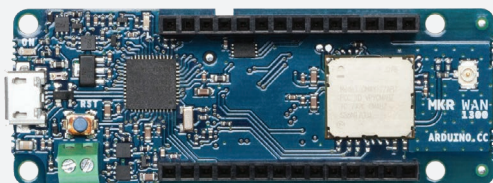
MKR WIFI 1010



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](#)

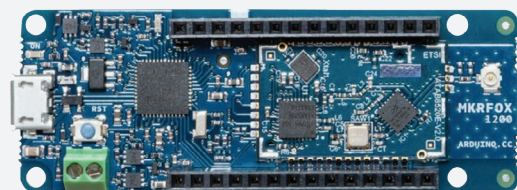
MKR WAN 1300



Arduino MKR WAN 1300 is a powerful board that combines the LoRa connectivity with the MKR form factor.

Order Code: [2851778](#)

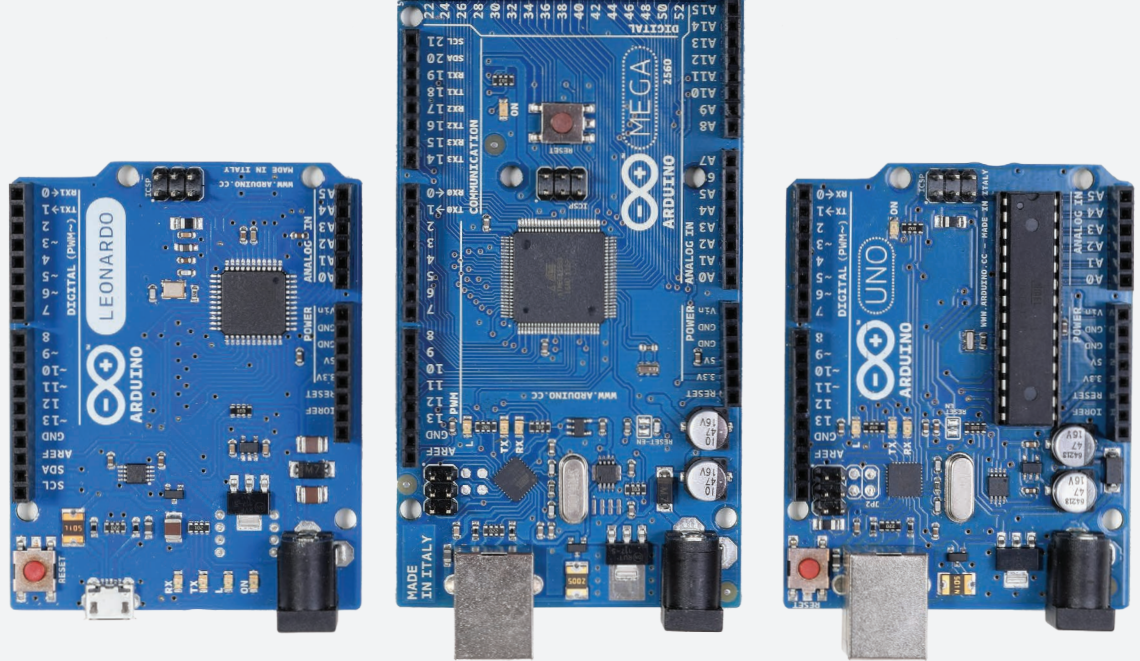
MKR FOX 1200



Arduino MKR FOX 1200 is a powerful board that combines the Sigfox connectivity with the MKR form factor.

Order Code: [2830994](#)

element14.com/Arduino



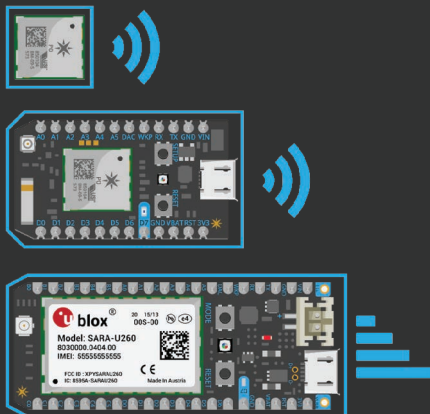
	CPU Speed	Processor	Operating Voltage	Input Voltage	Ethernet	WiFi	Bluetooth	Data Network	GPIO Pins	Ideal Usage	Order Code
Arduino Due	84 MHz	ATSAM3X8E	3.3V	7-12V	No	No	No	No	54	General	2250861
Arduino Nano	16 MHz	ATmega328P	5V	7-9V	No	No	No	No	30	General	1848691
Arduino Mega	16 MHz	ATmega2560	5V	7-12V	No	No	No	No	70	General	2212779
Arduino Leonardo	16 MHz	ATmega32U4	5V	7-12V	No	No	No	No	32	General	2133070
Arduino Yun Rev 2	16 MHz	ATmega32U4	5V	5V	Yes	802.11 b/g/n	No	No	20	IoT	2888818
Arduino Leonardo ETH	16 MHz	ATmega32u4	5V	7-12 V	Yes	No	No	No	20	IoT	2780391
Arduino MKRZero	48 MHz	SAMD21 Cortex-M0+	3.3V	5V	No	No	No	No	22	Audio	2830993
Arduino MKR 1000 WiFi	48 MHz	SAMD21	3.3V	5V	No	802.11 b/g/n	No	No	28	IoT	2830991
Arduino MKR 1010 WiFi	48 MHz	SAMD21	3.3V	5V	No	802.11 b/g/n	No	No	28	IoT	2917569
Arduino MKR 1300 WAN	48 MHz	SAMD21	3.3V	5V	No	No	No	LoRaWAN	28	IoT	2851778
Arduino MKR 4000 VIDOR	200 MHz	Intel Cyclone 10CL016	3.3V	5V	No	No	No	No	22*	Digital Audio/ Video	2917571
Arduino MKR 1500 NB	-	SAMD21 Cortex-M0+	3.3V	5V	No	No	No	Narrow Band	22	IoT	2917565
Arduino MKR 1200 FOX	48 MHz	SAMD21 Cortex-M0+	3.3V	5V	No	No	No	SigFOX	8	IoT	2830994
Arduino MKR CAN Shield	-	-	3.3V	5V	No	No	No	CAN Bus	No	Industrial	2917572
Arduino MKR 1500 NB Shield	-	-	3.3V	5V	No	No	No	Narrow Band	No	IoT	2917565
Arduino MKR Ethernet Shield	-	-	3.3V	5V	No	No	No	Ethernet	No	IoT	2917570
Arduino MKR 485 Shield	-	-	3.3V	5V	No	No	No	RS-485 Bus	No	Industrial	2917566

* 25 Mini PCI Express



Particle

Everything You Need to Empower IoT



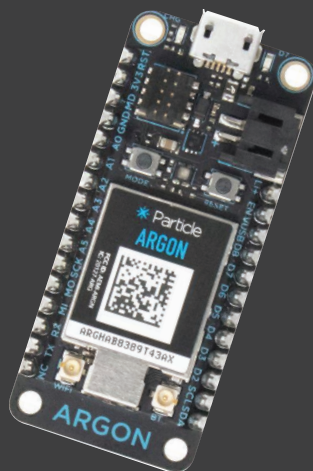
The new all-in-one IoT platform,
from device to cloud.

Get started in minutes

Say "Hello, World" to Device OS

Built to scale

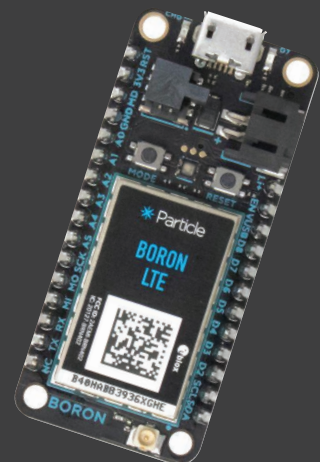
Argon WiFi Mesh



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.

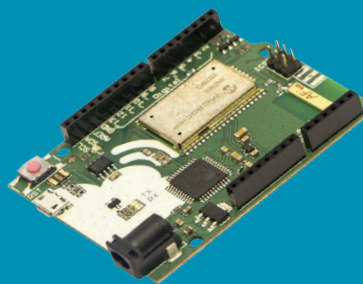
The Things Gateway



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**

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**

SmartEdge Industrial IoT Gateway Solution

Raspberry Pi based Low-Cost Avnet SmartEdge IoT Gateway for Industrial Application

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:

SMART FACTORY	Predictive analysis to take production line monitoring beyond just automation.
SMART ASSET MONITORING	Track and monitor your assets used in your business remotely.
SMART BUILDING	Real-time and modern monitoring solution for your facilities.
SMART RETAIL	Enhance customers' shopping experience by merging the digital world with the real world.

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.



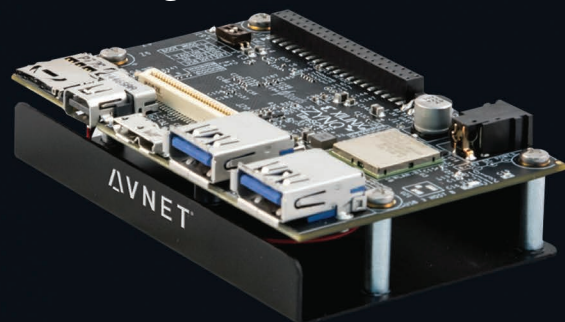
HANHAA

element14.com/Symbisa

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Ultra96 V2

The Platform to Simplify Machine Learning



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.

element14.com/Ultra96

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**

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Industrial Automation – follow discussions and get the latest information from top suppliers on what goes in to Industry 4.0.

Internet of Things (IoT) – join the conversation on nodes, gateways and the cloud - from selecting the right hardware to designing for safety and security.

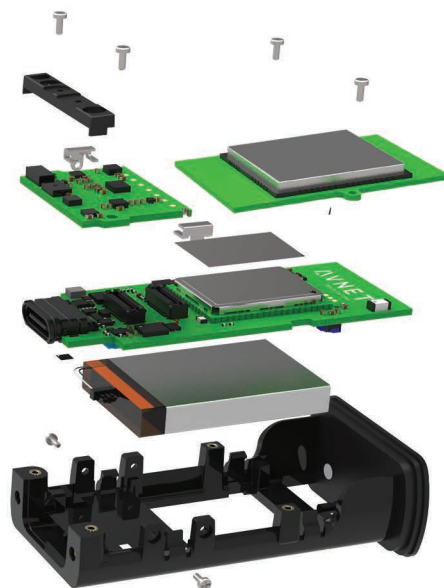
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End-to-End IoT Solution

Delivering AI at the Edge



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Ready to Use



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Hardware



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Integration

Applications



Predictive
Maintenance



Smart
Factory



Security &
Surveillance



Healthcare