INTEL EDISON
A high performance board for IoT and wearable applications based on the Intel Atom

BEAGLEBONE BLACK
Open source platform based on the 1-GHz Sitara AM335x ARM Cortex-A8 processor

RASPBERRY Pi 3 MODEL B
A tiny, affordable computer ideal for education and maker projects

<table>
<thead>
<tr>
<th>Processor Architecture</th>
<th>INTEL EDISON</th>
<th>BEAGLEBONE BLACK</th>
<th>RASPBERRY Pi 3 MODEL B</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Intel Atom</td>
<td>ARM Cortex A8</td>
<td>ARM A8</td>
</tr>
<tr>
<td>RAM</td>
<td>1 GB LPDDR3</td>
<td>512 MB DDR 3</td>
<td>1 GB</td>
</tr>
<tr>
<td>Flash</td>
<td>4 GB eMMC</td>
<td>4GB eMMC</td>
<td>MicroSD card slot</td>
</tr>
<tr>
<td>Comms</td>
<td>WiFi, Bluetooth</td>
<td>USB, Ethernet</td>
<td>4 x USB, Ethernet, WiFi, Bluetooth, Bluetooth LE</td>
</tr>
<tr>
<td>Video</td>
<td>None</td>
<td>HDMI interface</td>
<td>HDMI, DSI</td>
</tr>
<tr>
<td>Audio</td>
<td>I2S</td>
<td>Via HDMI, stereo</td>
<td>4 pole stereo output</td>
</tr>
<tr>
<td>OS</td>
<td>Yocto Linux v1.6</td>
<td>Debian</td>
<td>Rasbian (Debian Jessie)</td>
</tr>
<tr>
<td>Other OSs</td>
<td>N/A</td>
<td>Android &amp; Ubuntu</td>
<td>Linux, RISC OS, PINET, Windows 10 IOT Core</td>
</tr>
<tr>
<td>Size</td>
<td>35.5 mm × 25 mm</td>
<td>86 mm x 53 mm</td>
<td>85.6 mm × 56.5 mm</td>
</tr>
</tbody>
</table>

NEW PRODUCTS

MOTOROLA MOTO MODS KIT
Custom applications that connect to the Smart Surface on a Motorola Moto Z cellphone

INTEL TINY TILE
Miniaturised Arduino/Genuino 101 board using Intel Curie low-power compute module

BEAGLEBONE BLACK WIRELESS
The newest board in the BeagleBone family with onboard WiFi and Bluetooth

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www.devboardselector.com
CODEBUG
CodeBug is a fun and engaging board that lets anyone at any age build interactive devices while learning simple programming and electronic concepts. The board includes a 5x5 red LED display, 2 buttons, 6 touch sensitive I/O pads, a Micro USB socket and a configurable expansion port. With an integrated battery holder, it can be used anywhere; even sewn onto clothing. The online programming tools include the Blockly-based programming interface that is ideal for introducing programming concepts to young children and a simulator to check code before downloading.

RASPBERRY Pi 3 MODEL B
The Raspberry Pi is a powerful, credit-card sized board designed for teaching computer science. With extensive support available, including Picademy, a free teacher training initiative, it allows students to build creative projects using a wide range of tools. The Raspberry Pi 3 has comprehensive connectivity, including Ethernet, WiFi, Bluetooth and USB, and offers an HDMI port for connecting to a display. The HAT bus allows expansion boards to be added easily, providing additional functionality from motor control to GPS navigation.

PROJECTS

QUIZBUG
This project uses the CodeBug to create a quiz game. It makes use of the touch-sensitive legs to detect the user’s choice, a connected buzzer and the LED display to show the correct answer. It’s a great project that lets students develop simple hardware as well as creating code.
goo.gl/qWSQdi

HAL-CAM 9001
This project turns the Raspberry Pi into an intelligent security camera that not only detects movement, but can also tell the difference between trees moving in the air, a car or a human. Detailed construction information is available to make building the camera easier.
goo.gl/YRmhsh

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