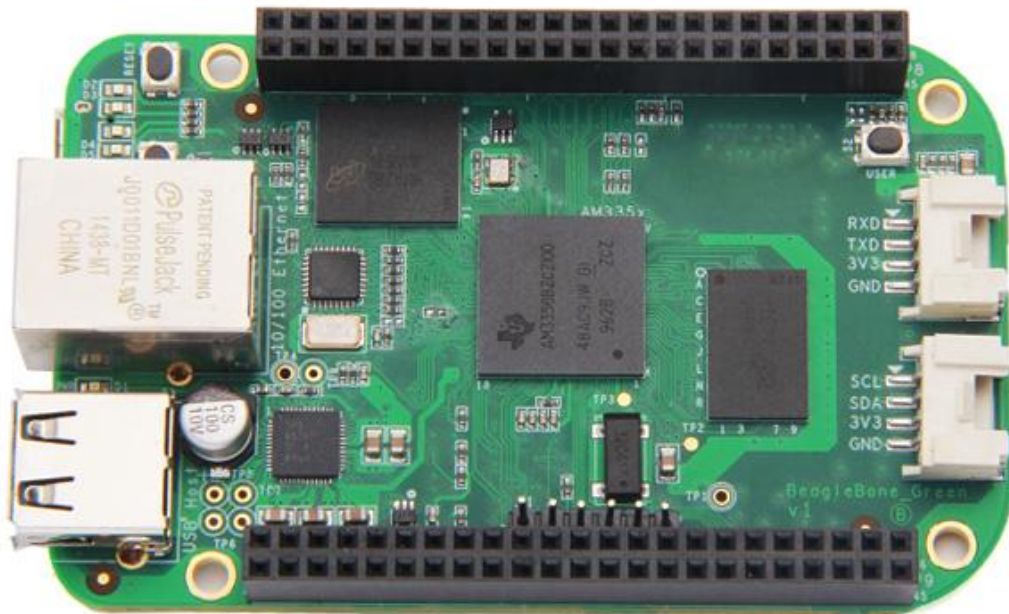


# BeagleBone Green

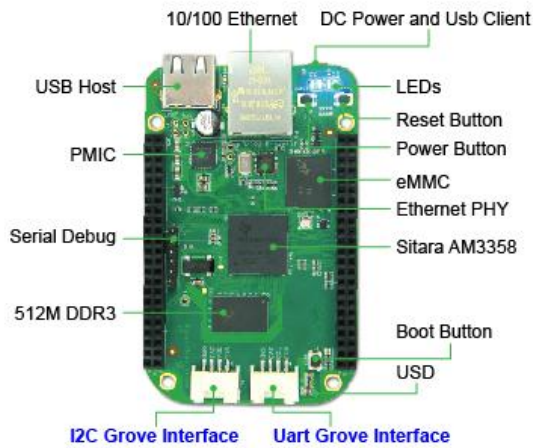


(Jason Krinder of Beagleboard.org announced BeagleBone Green at Bay Area Maker Faire, the latest version has removed the battery backed up Real Time Clock (RTC) and you can use Grove - RTC instead.)

## Here Comes the Story...

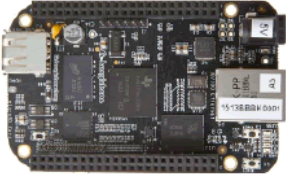
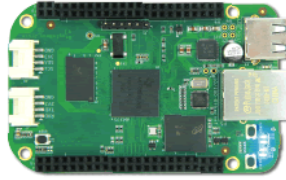
Boards from BeagleBone.org have been catering thousands of DIY electronics hobbyists for years. People developed innovative projects with the real open-source, community-supported platform. Now we move on, to connect the board with Seeed large library of Grove sensors.





BeagleBone Green (BBG) is a joint effort by BeagleBoard.org and Seed Studio. It is based on the open-source hardware design of BeagleBone Black and developed into this differentiated version.

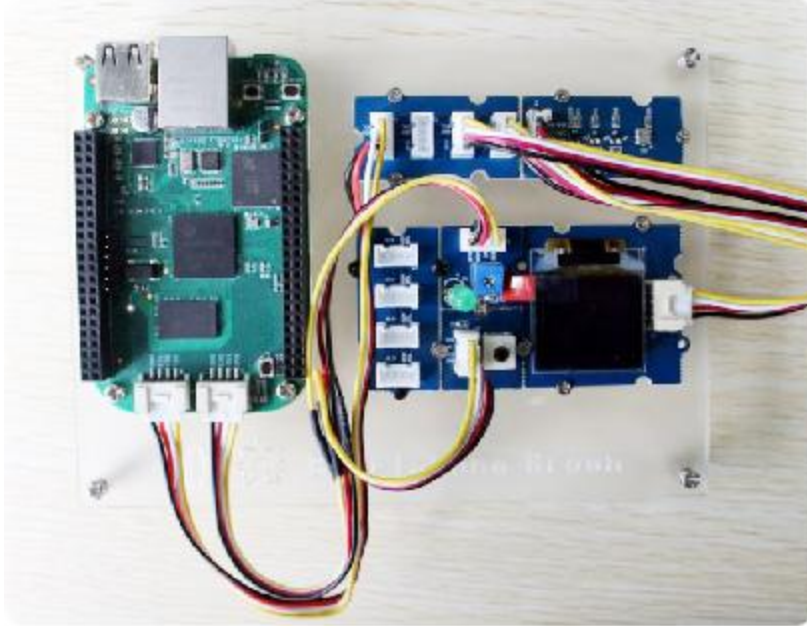
The BBG has included two Grove connectors, making it easier to connect to the large family of Grove sensors. It has also updated the 5V barrel to micro USB host.

BBB VS BBG	
BeagleBone Black (BBB)	BeagleBone Green (BBG)
	
<ul style="list-style-type: none"> <li>• Processor: AM3358 1GHz ARM® Cortex-A8</li> </ul>	<ul style="list-style-type: none"> <li>• Processor: AM3358 1GHz ARM® Cortex-A8</li> </ul>
<ul style="list-style-type: none"> <li>• 512MB DDR3 RAM</li> </ul>	<ul style="list-style-type: none"> <li>• 512MB DDR3 RAM</li> </ul>
<ul style="list-style-type: none"> <li>• 4GB 8-bit eMMC on-board flash storage</li> </ul>	<ul style="list-style-type: none"> <li>• 4GB 8-bit eMMC on-board flash storage</li> </ul>
<ul style="list-style-type: none"> <li>• 3D graphics accelerator</li> </ul>	<ul style="list-style-type: none"> <li>• 3D graphics accelerator</li> </ul>
<ul style="list-style-type: none"> <li>• NEON floating-point accelerator</li> </ul>	<ul style="list-style-type: none"> <li>• NEON floating-point accelerator</li> </ul>
<ul style="list-style-type: none"> <li>• 2x PRU 32-bit microcontrollers</li> </ul>	<ul style="list-style-type: none"> <li>• 2x PRU 32-bit microcontrollers</li> </ul>
<ul style="list-style-type: none"> <li>• USB client for power &amp; communications</li> </ul>	<ul style="list-style-type: none"> <li>• USB client for power &amp; communications</li> </ul>
<ul style="list-style-type: none"> <li>• USB host</li> </ul>	<ul style="list-style-type: none"> <li>• USB host</li> </ul>
<ul style="list-style-type: none"> <li>• Ethernet</li> </ul>	<ul style="list-style-type: none"> <li>• Ethernet</li> </ul>
<ul style="list-style-type: none"> <li>• 2x46 pin headers</li> </ul>	<ul style="list-style-type: none"> <li>• 2x46 pin headers</li> </ul>
<ul style="list-style-type: none"> <li>• <b>HDMI port</b></li> </ul>	<ul style="list-style-type: none"> <li>• <b>2xGrove connectors</b></li> </ul>

\* The software of BBG is fully compatible with that of BBB and the existing capes of BBB can also be well applied on BBG.

\*\* BBG is both CE and FCC certified.

## Basic Demo



### Basic Demo - Intelligent alarm system made with BBG (IoT)

It is an IoT demo which we can monitor the temperature on the internet in real time. As long as it exceeds the threshold and lasts for 1 minute, a warning email will be sent to you. Learn more at our [Recipe](#).

## Support from Grove Family



[Grove - 3-Axis Digital Gyro \(I2C\)](#)

[Grove - 3-Axis Digital Compass \(I2C\)](#)

[Grove - IMU 10DOF \(I2C\)](#)

[Grove - Digital Light \(I2C\)](#)

[Grove - Temperature & Humidity \(I2C\)](#)

[Grove - Barometer \(I2C\)](#)

[Grove - Finger-clip Heart Rate \(I2C\)](#)

[Grove - GPS UART](#)

[Grove - IR Distance Interrupter \(I/O\)](#)

[Grove - Light Sensor](#)

[Grove - Rotary Angle Sensor](#)

[Grove - Sound Sensor](#)

[Grove - Relay](#)

Check out the [updated full list](#)

### Part list

- BeagleBone Green x 1
- USB Cable x 1
- User Guide x 1