Building An IoT Node For Less Than 15 $: NodeMCU & ESP8266

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Synopsis

Espressifâ ™s ESP8266 is among the most integrated WiFi chips in the industry; it integrates the antenna switches, RF balun, power amplifier, low noise receive amplifier, filters, power management modules, it requires minimal external circuitry, and the entire solution, including front-end module, is designed to occupy minimal PCB area.The ESP8266 also integrates an enhanced version of Tensilicaâ ™s L106 Diamond series 32-bit processor, with on-chip SRAM, besides the Wi-Fi functionalities.The ESP8266 is the base for several ESP modules some of them will be introduced here.The ESP8266 is RoHS-conform and has all required certificates, as FCC & CE. Therefore, no restrictions for its use in applications will be expected.NodeMCU is an open source IoT platform. It uses the Lua scripting language. It is based on the eLua project, and built on the ESP8266 SDK 0.9.5. It includes firmware which runs on the ESP8266 and hardware which is based on the ESP-12 module.A few lines of Lua are sufficant to build a web server or client, a MQTT publisher or subcriber or connecting peripherals. This kind of applications are in focus here.

Book Information

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Customer Reviews

I've been very curious about the ESP8266, and I started looking at it over Thanksgiving week. I scoured the internet for information on getting started, but the content is all over the place in bits and pieces and in some cases out-of-date. I took a gamble on this book, and it was exactly what I needed to get started with EsP8266, nodemcu, and lua with a minimal amount of fuss. The explanations were thorough enough, and the example code helps you be productive faster. If you are getting started with ESP8266, I would strongly recommend this book.

Please find my complete review at [...]â œBuilding an IoT Node for less than 15 $â • is the book I wish I had had when I started my endeavor into the IoT/ESP8266/NodeMCU world in May 2015. I covers everything you need to know to get you started even if you donâ ™t have a any prior experience in electronics or low-level programming (firmware, C/C++ etc.). It teaches you a bit about the chip and modules equipped with it, gives you a Lua primer and contains lots of helpful examples.

I found it informative and it helped with my project.

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