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

Claus Kühnel

Building an IoT Node
for less than 15 $

NodeMCU & ESP8266

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

File Size: 4947 KB

Print Length: 200 pages

Simultaneous Device Usage: Unlimited

Publisher: Skript Verlag KÃƒÂ hnel (November 24, 2015)

Publication Date: November 24, 2015

Sold by:Â Digital Services LLC

Language: English

ASIN: B018J1OVC4

Text-to-Speech: Enabled

X-Ray: Not Enabled

Word Wise: Not Enabled

Lending: Not Enabled

Enhanced Typesetting: Not Enabled

Best Sellers Rank: #114,495 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #5 inÂ Books > Computers & Technology > Networking & Cloud Computing > Wireless Networks #95 inÂ Kindle Store > Kindle eBooks > Computers & Technology > Networking > Networks, Protocols & API's #295 inÂ Books > Computers & Technology > Networking & Cloud Computing > Internet, Groupware, & Telecommunications

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internet for information on getting started, but the content is all over the place in bits and pieces and in some cases out-of-date.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.

Download to continue reading...

Machine Learning with R Cookbook - 110 Recipes for Building Powerful Predictive Models with R The High Definition Leader: Building Multiethnic Churches in a Multiethnic World Building a Scalable Data Warehouse with Data Vault 2.0 Sacred Marriage Participant's Guide: What If God Designed Marriage to Make Us Holy More Than to Make Us Happy? The Big Book of Building, Mods & Circuits: Minecraft®™ Imagine It . . . Create It . . . Build It Mapping the Nation: Building a More Resilient Future Linux: Linux Bash Scripting - Learn Bash Scripting In 24 hours or less How to Build a Website from Scratch: A Step by Step Guide (Building Your Business Series Book 1) Building Business Websites with Squarespace 7 Evernote In 90 Minutes Or Less: Declutter and organize your life by going completely paperless (Life Hacks Book 1) Building E-Commerce Solutions with WooCommerce - Second Edition Building Machine Learning Systems with Python - Second Edition API Architecture: The Big Picture for Building APIs (API-University Series Book 2) MICROSERVICES: Discover and Manage Microservices Architecture (Microservices Patterns and Application, Building Microservices, QBit, Gradle, Java POJO, Developing Microservices, Security) Building a RESTful Web Service with Spring Building Applications on Mesos Fire Stick: Fire TV Stick Made Easy - The Ultimate Step-By-Step User Guide To Mastering Your Fire Stick In Less

Than A Day! (How To Use ... Fire TV Stick User Guide, Streaming) Build Your Own Gaming PC: The step-by-step manual to building the ultimate computer Less is More : 7 Effective Tips to Declutter and Simplify for More Fulfilling Life: (How to keep your home clutter free, organized & simplified in 5 minutes a day) Back in the Day Bakery Made with Love: More than 100 Recipes and Make-It-Yourself Projects to Create and Share