FEATURE

For the Professional Maker: Get Started with PSoC 6 Using the CY8CPROTO-062-4343W Kit

JEREMY S. COOK

When you purchase a dev board, you expect certain accommodations for the onboard MCU, such as a programmer, IO connections, and other peripherals specialized to a particular system. While these onboard accessories are often useful, at other times they can be unnecessary, taking up valuable space in your prototype. The CY8CPROTO-062-4343W PSoC 6 Wi-Fi and Bluetooth prototyping kit from Cypress Semiconductor has a different take on things, as a dev board or kit that snaps into six separate modules so that you can selectively use just the accessories that you need.

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BLOG

Do You Have a S.M.A.R.T. Tool for Your SSD?

GIBSON MING-DAR CHEN, UD INFO

Do you know how long your SSD can last? Because the data are priceless and the symptoms of a SSD are very difficult to detect before the end of life. Once the problem
occurs, sometimes SSDs enter read-only mode, but they can no longer process data. However, sometimes you will never see it again. Knowing the SSD real-time status and backing up the data before the disaster occurs is essential. People must go for health checks every year, and SSDs are no different. Regular operation checks will ensure that SSDs will continue to function properly.

BLOG

How to Tell if Hardware has Embedded Linux Support

VILLE BAILLIE, BYTESNAP DESIGN

When picking out parts for your custom electronics design, it can pay to check up-front for Linux driver support. Writing new drivers for unsupported hardware is time-consuming, introduces risk, and adds complexity to a project.

BLOG

ECE Education Must Align with Industry

VIN D?AGOSTINO

Fill a room with people from the arts and the conversation will eventually find its way to ?Does life imitate art, or does art imitate life?? Fill that same room with university professors and industry people, and the conversation more quickly finds its way to ?Why can?t academia better prepare their students for industry??

BLOG

MWC: 5G Opportunity Taking Off for Big and Small Ventures

EMMANUEL GRESSET, CEVA WIRELESS BU

5G has seemed for a while to be a technology of great promise but hedged with caveats. It will offer high bandwidth everywhere, or super-high-density support or ultra-reliable communication for C-V2X, but we haven?t been sure when the operators, phone makers and others will get on board. And the full rollout may take 10 years. It seems that this viewpoint didn?t account for competitive pressures. At MWC (Barcelona) this year, if your story didn?t revolve around 5G, you were invisible.
PODCAST
Single or Open Source: What’s Best for Wide-Area Wireless?
EMBEDDED COMPUTING DESIGN

The Embedded Insiders briefly review the results of an IoT developer survey from the Eclipse Foundation, which found that two-thirds of engineers are currently or plan to launch an IoT project in the next 18 months. Given the pervasiveness of IoT, does that even mean anything anymore?

BLOG
What Processor Should I Use?
COLIN WALLS, MENTOR GRAPHICS, EMBEDDED DIVISION

You might question why, as I am supposed to be an embedded software specialist, I am considering the selection of an embedded CPU, which is clearly a hardware matter. It would be a fair question, except that, in embedded system design, the development of hardware and software are inextricably entwined, each having an influence on the other.

BLOG
Securing the IoT from the Chipset Up
CURT SCHWADERER, TECHNOLOGY EDITOR

The breadth of IoT systems is diverse resulting in broad vulnerabilities at the sensor, gateway, and cloud environments. Thanks to the rich history of enterprise cloud computing and applications, securing cloud systems has matured significantly. However, at the sensors and edge, security has been stagnant.

BLOG
MISRA C:2012 3rd Edition, 1st Revision?
ANDREW BANKS, MISRA C WORKING GROUP
In February of this year, MISRA published an updated version of the world-leading MISRA C guidelines—described as MISRA C:2012 3rd Edition, 1st Revision.

BLOG

How to Balance Agile in Embedded Markets Where Compliance is a Big Focus—and why Traceability is the Key

GERHARD KRUGER, PERFORCE SOFTWARE

The benefits of the Agile methodology—not least of which is faster-time-to-market—are well-documented, but transitioning to Agile can be a challenge for embedded software teams in compliance-driven markets, such as automotive, aerospace and medical devices.

BLOG

The Perplexities of Predictive Maintenance: Generating and Leveraging Failure Data

SETH DELAND, MATHWORKS

While having an estimate of the time until failure is useful, even more valuable is information that describes the type of failure expected to occur (the root cause). Models that predict the type of failure can be trained on historical failure data, however, engineers commonly experience a lack of failure data for the various failure scenarios. For my third and final blog, we’ll explore one of the most crucial, and frequently missed, components of predictive maintenance: workflow failures and knowing how to predict them.

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Z-Wave 700: Unlocking Smart Home Potential
SILICON LABS
The next generation of connected environments requires sensing and communication technologies that are more powerful, efficient, secure and accessible. The Z-Wave 700 has been designed to meet the demands of the future smart home.

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Unlock Productivity with 5 InsightCM Features for Remote Diagnostics
NATIONAL INSTRUMENTS
Better uptime starts with better data. A reliability engineer can’t be in two places at once. When assets at different plants raise concern, the engineer needs to quickly and accurately determine which asset is more likely to contribute to an outage.

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Debunking the Top Myths About Unsupported Linux for Embedded Development
SUSE
While the allure of unsupported Linux draws in many, the long-term costs and resource requirements associated with updating, patching, and scaling those systems can become prohibitive. With embedded Linux operating systems from SUSE, you can stay focused on creating innovative products that are secure, easy to manage,
and supported by a trusted partner with a proven track record in open source technology.

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