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Blogging Instructions for Embedded, IoT, Automotive, Industrial, Security, MakerPro

Each year we receive more than 700 blogs read by more than 125,000 engineers worldwide. Blogs are an excellent opportunity to drive thought leadership, awareness, and credibility.

Guest blogging on Embedded Computing Design/IoT Design is easy. There are just a few rules/guidelines

1. Topic must be of professional interest to a design engineer (cover a technology, a standard, an industry trend, etc.)

2. Blogs written in first person usually get more attention

3. The same blog can't appear on any other site

4. Company/product pitches are not allowed, but mentions are okay

5. Word count is typically 400-700, but shorter or longer is okay

6. Art is allowed but not required

Submit your blog to Rich Nass (rich.nass@opensysmedia.com) as a Word file, and include the author's photo, bio, and email address (address will not be published).

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Smart World of IoT– The Definite Integral!

APRIL 29, 2019
JAYA KATHURIA BINDRA AND NIDHIN M S, CYPRESS SEMICONDUCTOR CORPORATION

In previous columns, we covered several aspects of IoT design, including sensors, connectivity, and software. In this part, we will explore the advantages of designing with single-chip IoT architectures, present and in the future.

The Definite Integral

As we've explored in the previous columns of this series, IoT nodes are tiny eyes, ears, and brains that speak a common language to communicate with each other and with higher capability systems. Therefore, they require multiple integrated devices to perform their functions. As the number of devices used in a system increases, so does size and cost. IoT devices are projected to far outnumber PCs and smartphones. This creates, yes, you guessed it – a very competitive market. To play in this fast growing and competitive IoT market, embedded devices need to be able to embrace a faster rate of innovation in a key area – integration.

There is a clear need to densely pack electronics so that they occupy the minimum real estate while preserving full functionality. Therefore, designers seek maximum integration of functionality in a single chip. MCUs are a good example of continued integration in the embedded market. MCUs pushed

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