

CES 2017: What do you get when you cross a BMS with wireless?



Rich Nass, Embedded Computing Brand Director

At the recent Consumer Electronics Show (CES) in Las Vegas, I came across an interesting concept — what if you combined a battery management system (BMS) with wireless technology? To be honest, the concept hadn't crossed my mind before, but now thinking about it a bit, it gave me an “aha!” moment. It struck me because I was in the Linear Technology booth where the company was displaying such technology, hence, I took a few minutes to hear them out. Assuming you might have... [Continued...](#)

IoT Development Kit Guide

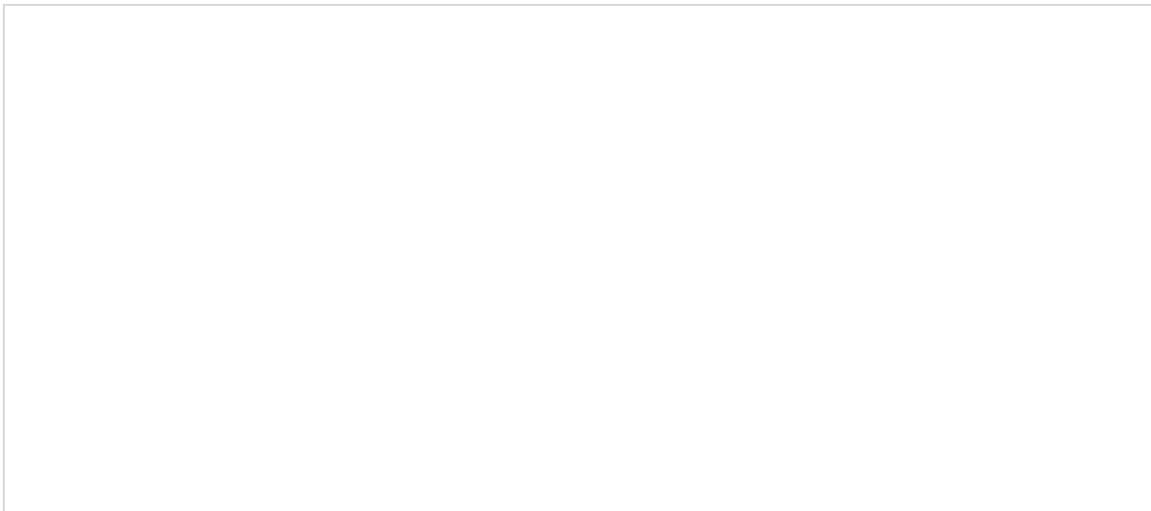
Help for embedded and Internet of Things (IoT) design engineers to efficiently identify evaluation kits for system prototyping.

The latest USB innovations are driving the market to unprecedented highs



Khusro Khan, Transparency Market Research

USB cables are about as ubiquitous as any connecting medium can be. There are several USB standards with varying connector types, including Standard A, Standard B, Micro A, Mini B, Micro AB, and Micro B. Standard A is the most common, found in most PCs, while Standard B is for large peripherals, like scanners and printers. Micro and Mini adapters are generally used for small portable devices, such as mobile handsets and digital cameras. Super speed USB cables are expected to drive the global... [Continued...](#)





Will you be safe with an always-connected Internet of Things?



Michael Armentrout, Infineon

Rising connectivity across people, machines, and devices is highlighting the need for IT security, or security for the so-called Internet of Things (IoT) in particular. From industrial manufacturing to smart home technology and communications, decision makers are becoming aware of the IoT's potential security risks. A successful attack, such as a widespread IoT DDoS attack that took major websites offline on October 21 last year, can group unsecured devices into botnets and flood a target website with traffic, thereby disrupting normal service to other... [Continued...](#)

Could smart power supplies help save the planet?



Paolo Conchiglia, Infineon

At the start of a new year, perhaps some of us might have resolved to reduce, reuse, and recycle a little more to help save the planet from global warming – but how do we accomplish this while continuing to live our modern lifestyles? Turns out that moving to a cave in the mountains and living off the grid may not be that practical, but it might still be comforting to know that every time we have to switch on a light or charge... [Continued...](#)

You want to play with lasers? Take safety seriously



Jeremy Cook, Engineering Consultant

If you grew up in the 1980s (or likely earlier) and were interested in technology whatsoever, you probably thought lasers were pretty awesome. Portrayed in science fiction as amazing handheld weapons, or in actual scientific documentation as devices for advanced experimentation, getting your hands on one once seemed like a far distant fantasy. This fantasy is now a reality, and cheap laser pointers can be had



for a few bucks. Those capable of actually cutting something are a bit more, but can be had... [Continued...](#)

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2016 takeaways, 2017 trends to watch



Curt Schwaderer Editorial Director

2016 was another exciting year for the embedded industry highlighted by emerging Internet of Things (IoT) platforms and the sensors, embedded systems, and network topologies to support them. Here we review the embedded highlights of 2016 and look forward at emerging trends for 2017 and what's driving them. 2016 embedded year in review 2016 was a year that saw the IoT trend hit critical mass. This critical mass was formed from previous attempts that resulted in a realization that IoT is a complex mash-up... [Continued...](#)

Self-learning software for development of predictive driving launched by Elektrobit



Jamie Leland, Content Assistant

Elektrobit (EB) has announced EB robinos Predictor, a software module that provides street map and topographical data for development of predictive driving systems. The new solution features a self-learning algorithm to enable the implementation of advanced driver assistance systems (ADAS), like predictive headlights, curve speed warning, and traffic-sign assistance. The hardware-agnostic software consists of three optional components, including provider, reconstructor, and a self-learning map module. The first component, provider, is also part of the Dynamic eHorizon solution of Continental AG. EB robinos Predictor supports... [Continued...](#)

Zinn: Predictions for 2017



Rich Nass, Embedded Computing Brand Director

Predictions are easy, mostly because very few people ever go back to check if the prediction came true. Ray Zinn, who has been in our embedded industry longer than most, has a pretty good track record with his predictions (yes, I checked). So, I asked him in our weekly chat to make a few bold predictions for 2017. [Continued...](#)



Paving the way for the mobility revolution



Shawn Slusser, Infineon

Carmakers are continually improving every aspect of their vehicles to achieve superior fuel efficiency and cleaner emissions. As the very definition of mobility

evolves from gasoline-run vehicles to hybrid and electric alternatives, innovative technologies are also required to make the future of transport easier, safer, and greener. At the heart of these fundamental changes lie the semiconductor technologies that enable greater power efficiency, increase performance, and support more intelligent vehicle systems. These technologies are key to bringing us ever-closer to this 'mobility revolution'. Clean,... [Continued...](#)

Emulation takes on post-silicon validation with an integrated approach



Jean-Marie Brunet, Marketing Director (Emulation Division), Mentor Graphics

According to a study jointly carried out by Mentor Graphics and Wilson Research Group in 2014, at least 1 percent of bugs escape to silicon level, and that underscores the critical importance of post-silicon validation. Moreover, there simply aren't enough verification cycles to find bugs that pass the pre-silicon phase. The traditional verification flows are now beginning to reach their limitations by the time designs get to the post-silicon stage. In other words, the gap between pre-silicon verification and post-silicon validation is a serious... [Continued...](#)



CES 2017: Bike-pedal power meter brings pro tools to amateur cyclists



Jean-Philippe Gros, Leti

Cycling is perhaps the first sport to leverage high technology, including power meter systems. But until now, power meters were expensive, with prices ranging above \$1,000, and installation was complex. Only professional cyclists could afford one. To make power meters more accessible to recreational cyclists and professionals without compromising performance, Leti, a French technology institute based in the French Alps, a Tour de France venue, came up with PUSH, a universal pedal power meter professional and weekend athletes that costs under \$100. The pedal... [Continued...](#)

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