CES 2017: 360-degree video from a drone

Rich Nass, Embedded Computing Brand Director

It was tough for a vendor to stand out at CES, amid all the lights, sounds, glitter, etc., in Las Vegas. One product/technology that did manage to catch my attention was an image processor developed by Socionext . The company's SC2000 is aimed at drones and similar "action" cameras. It's part of the Milbeaut family of image processors, which does a great job to balance high performance and low power. One of the things that really turned my head with respect to this technology… **Continued...**
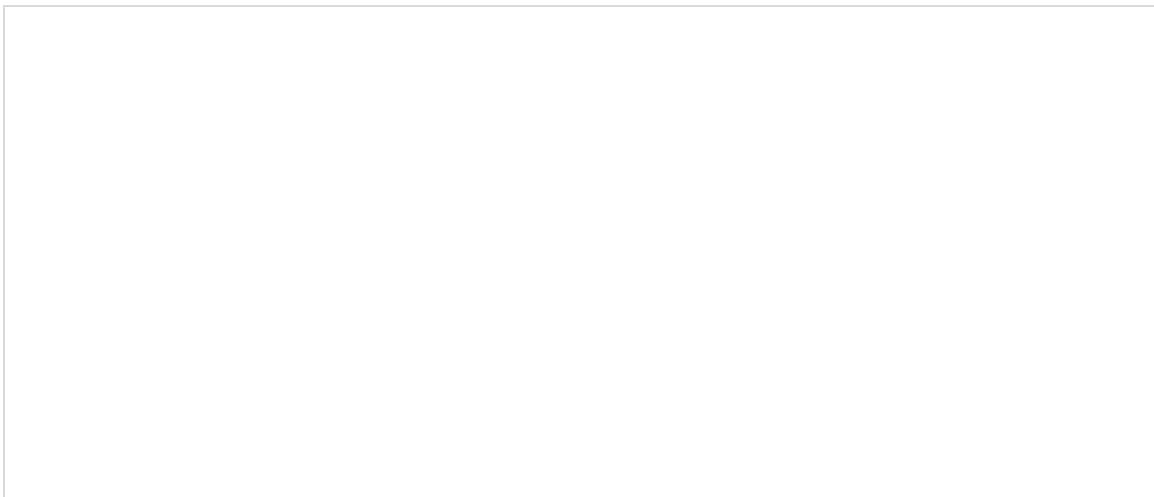

IoT Development Kit Guide

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

CES 2017: BlackBerry QNX SDP 7.0 drives safety-critical automotive ECU consolidation forward

Brandon Lewis, Technology Editor

Each year, the North Hall of the Las Vegas Convention Center is one of the most exciting places for CES-goers, as it houses (most of) the automotive technology the show has to offer. Here, the Faraday Future car was on display, alongside concept vehicles from almost every innovative auto manufacturer and tier one. But for techies, the real fun comes at booths where existing production vehicles have been retrofitted with the latest in silicon and software, giving attendees the ability to discover the underlying automotive technologies of tomorrow operating inside the real-world cars of today. Such is the case every year at the QNX Software (now BlackBerry QNX) booth.

Get some help developing your IIoT products

Rich Nass, Embedded Computing Brand Director

want to can make a huge difference in terms of revenue. More importantly, understanding how industrial healthcare devices operate can literally save lives.

Five Minutes With…Terry Dunlap, CEO, Tactical Network Solutions

Rich Nass, Embedded Computing Brand Director

Lots of people are involved in security the Internet of Things (IoT). However, there seem to be almost as many people focusing on the other side, meaning that they're trying to hack into your network. One of the questions I always have in this regard is, how do we stay ahead of the bad guys? Luckily, I came across Terry Dunlap, the Founder and CEO of Tactical Network Solutions, and former NSA employee to find out how we do that. Hear the answer yourself… **Continued...**

CES 2017: V2X envelopes CES with help from AT&T, Delphi, Savari

Brandon Lewis, Technology Editor

Some notable companies were absent from the North Hall of the Las Vegas Convention Center where automotive technology is usually on display at CES, but not because they weren't at the show. At CES 2017, the Gold Lot parking lot was opened up to vehicle-to-everything (V2X) companies for the first time to accommodate demonstrations required blocks rather than booth space. There, I met with Franz Tschimben, Business Development Manager at Savari, who drove me through a comprehensive tour of his company's technology.

Leveraging the Range of Sub-1 GHz Technology to Connect Ultra-Low Power Sensors to the Cloud

IoT drives the intelligent energy storage systems market

Khusro Khan, Transparency Market Research

The increasing emphasis on energy conservation is the foremost factor driving the global intelligent energy storage systems market. Since the optimum commercialization of renewable energy is yet to happen, conservation of the available energy remains the key step towards dealing with the current shortage of energy. Intelligent energy storage systems are gaining popularity because they enhance the total energy savings through a smart network of several energy storage units. The Internet of Things (IoT) serves as the nerve center for intelligent energy storage systems,… **Continued...**

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...**

Discovering the technologies behind the autonomous vehicle

Rudy Ramos, Mouser

The concept of autonomous vehicles is driving dynamism and innovation in the components industry. Sensors, power converters, GPS systems, wireless modules, control and communications technologies, and HMI products are all being developed with the autonomous vehicle in mind. In the meantime, Advanced Driver Assistance Systems (ADAS) are already producing revenue for the component makers. Here's a peek at some of the most interesting developments announced in the last few months. Neural network-based driving platforms The first generation of self-driving cars used LIDAR systems to… **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...**

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...**

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