

MEMORY & STORAGE FEATURE

Wear Levelling and How it Impacts SSD Life Expectancy

Data in flash memory is arranged in a hierarchy of cells, pages, and blocks, with data written a page at a time. NAND flash memory architecture is such that erasing can only occur at the block level. Also, access to the data in a solid state drive (SSD) is usually localized. There will be some data that is rarely used, or only accessed for reading, and other data that is frequently updated.

However, there is a limit to the number of times flash cells can be erased.

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INDUSTRIAL NETWORKING NEWS

Beckhoff Automation Releases EL51xx EtherCAT Terminal Series

As incremental encoders have become increasingly more important due to their compactness, the EL51xx series meets the need for analysis of 5V incremental encoders with RS422 and TTL signals.

[Read more](#)

EMBEDDED SENSORS NEWS

dSPACE's New Target Simulator for 4D Radar Sensors Sets New Standards

dSPACE is setting new standards for testing of 4-D radar sensors with a new target simulator. According to the company, the DARTS 9040-G is the first simulator worldwide to process multiple radar signals simultaneously with a

bandwidth of up to 5 GHz.

[Read more](#)

EMBEDDED PROCESSING NEWS

STMicroelectronics Announces GUI Design for Low-Cost Devices with TouchGFX Updates and New STM32 Nucleo Shield

STMicroelectronics announced the release of the STM32* Nucleo display shield that leverages the affordability of STM32G0 microcontrollers (MCUs).

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AUTOMOTIVE DEVELOPMENT TOOLS NEWS

SYSGO and Candera Present Graphical Hypervisor-based Automotive HMI Solution

The platform is based on Candera's Human-Machine-Interface (HMI) design tool CGI Studio and SYSGO's Secure Automotive Connectivity Platform (SACoP).

[Read more](#)

AUTOMOTIVE NETWORKING NEWS

Vector Offers Automotive OTA with vConnect

Vector announced that it is now offering vConnect, a new and comprehensive Over-The-Air solution. vConnect contains a modular OTA framework, from back end to vehicle.

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TEST & MEASUREMENT NEWS

Rohde & Schwarz Verifies Assisted-GPS Performance for Commercial Mobile Devices

Rohde & Schwarz announced it has verified assisted-GPS (APGS) performance for commercial mobile devices. The company has achieved this while simultaneously transferring data using 5G millimeter waves.

[Read more](#)

POWER ELECTRONICS NEWS

Inductive Charging for AGVs from St?ubli WFT

The technology group and developer of automated guided vehicles (AGV), St? ubli WFT, entered into a partnership with Wiferion as the supplier of inductive charging technology.

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NETWORKING NEWS

u-blox Releases NORA-B1 Bluetooth Module

The module, which is based on Nordic Semiconductor?s nRF5340 Bluetooth

low energy chipset, is reportedly the first to host the NORA-B1, an Arm Cortex M33 dual core MCU.

[Read more](#)

NAVIGATION AND POSITIONING NEWS

Septentrio Expands GPS/GNSS Portfolio with AsteRx-m3 Pro Receiver Board

Septentrio announced it has expanded its GPS/GNSS OEM portfolio with the AsteRx-m3 Pro receiver board. The receiver features the company's latests GNSS technology in a small form factor, making it suitable for robotic applications.

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EMBEDDED HARDWARE NEWS

Harwin Opens \$3.8m Smart Manufacturing Facility to Address Demand for Hi-Rel Connectors

The total investment into the new facility is \$3.8m; \$1m of this brings in equipment, with the last few machines arriving within the next 12 months. The new equipment uses advanced Industry 4.0 technology to maximize efficiency.

[Read more](#)

WEBCAST

The Virtual IoT Device Security Conference

Sponsored by: **IAR Systems, Trusted Computing Group, Cypress**

Date: **November 10; 11:00 a.m. ET, 2:00 p.m. ET, 4:00 p.m. ET**

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EMBEDDED INSIDERS PODCAST

Mergers, Acquisitions, and Free Money

It's all about money! In this edition of the Embedded Insiders, Brandon and Rich break down some major acquisitions, like Arm's purchase of NVIDIA, as well as AMD potentially buying Xilinx, prompted in part by all the "free money" that's available in the wake of the COVID-19 pandemic.

Later, Jim McGregor, Principal Analyst at Tirias Research, joins the Insiders with his thoughts.

Finally, Calista Redmond, the CEO of RISC-V, shares her vision of the computing industry after the world's largest IP vendor has been, at least for now, taken off the market.

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