EmbeddedDaily
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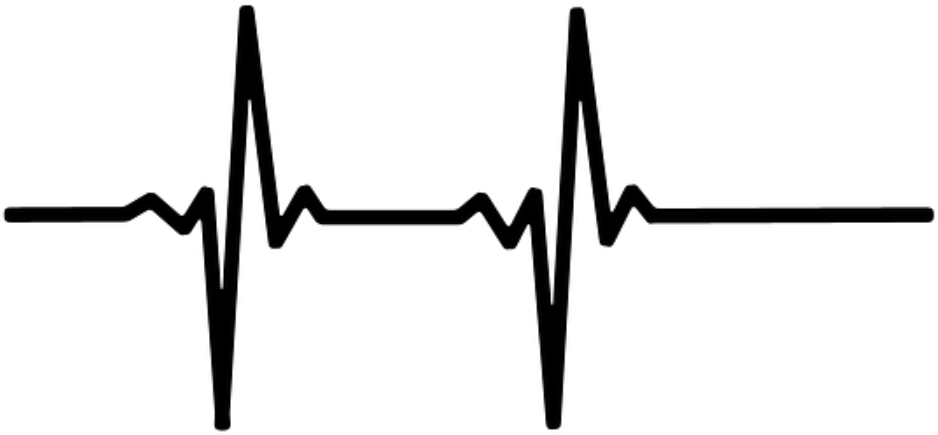
HEALTHCARE SENSING FEATURE

An Engineer?s Guide to Choosing Different Heart Rate Detection Techniques

There are two primary methods for measuring heart rate. The first utilizes optical techniques to detect changes in light absorption or reflection as blood passes through vessels close to the skin. The second method, biopotential measurement, uses voltage sensing electrodes to detect the electrical activity generated by heart muscle tissue, which transmits to the skin.
Read more



POWER ELECTRONICS NEWS

Texas Instruments? Latest Battery Charger Claims Industry?s Lowest Termination Current

Texas Instruments introduced the BQ25619 switching battery charger IC, which supports a termination current of 20 mA, enabling higher battery capacities and longer run times.
Read more

AUTOMOTIVE POWER ELECTRONICS NEWS

Infineon?s EasyPACK Modules with CoolSiC MOSFETs Serve EV Charging and UPS Apps

Features include a low stray inductance, enabling stacked modular solutions for charging that can go up to 120/150 kW, and an NTC temperature sensor for device monitoring.

Read more

AUTOMOTIVE HARDWARE NEWS

ACEINNA?s Latest MEMS-Based Inertial Measurement Unit Suits Autonomous Apps

The triple-redundant architecture and small, low-cost packaging makes it possible to quickly design-in and integrate IMU guidance technology, critical for Level 3 ADAS systems.

Read more

TEST & MEASUREMENT NEWS

CEA-Leti Manipulates Cells and Samples with Non-Contact Evanescent Acoustic Tweezers

CEA-Leti developed a new acousto-microfluidic technology for manipulating micro- and nanoscale samples using evanescent sound waves. The technique is expected to replace existing technology, which uses high-frequency propagative surface acoustic waves (leaky SAW) to move microscopic samples on complex substrates.

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SPONSORED BLOG

Compact Industrial PCs Bolster Compute Power, Graphics and IoT Connectivity

Industrial designs are evolving with a steady rise in compute and graphics capabilities as well as the availability of flexible network configurations via I/O and wireless connectivity mechanisms to serve a wide array of applications in factory automation, automated test equipment, smart warehouse, digital signage and medical equipment.

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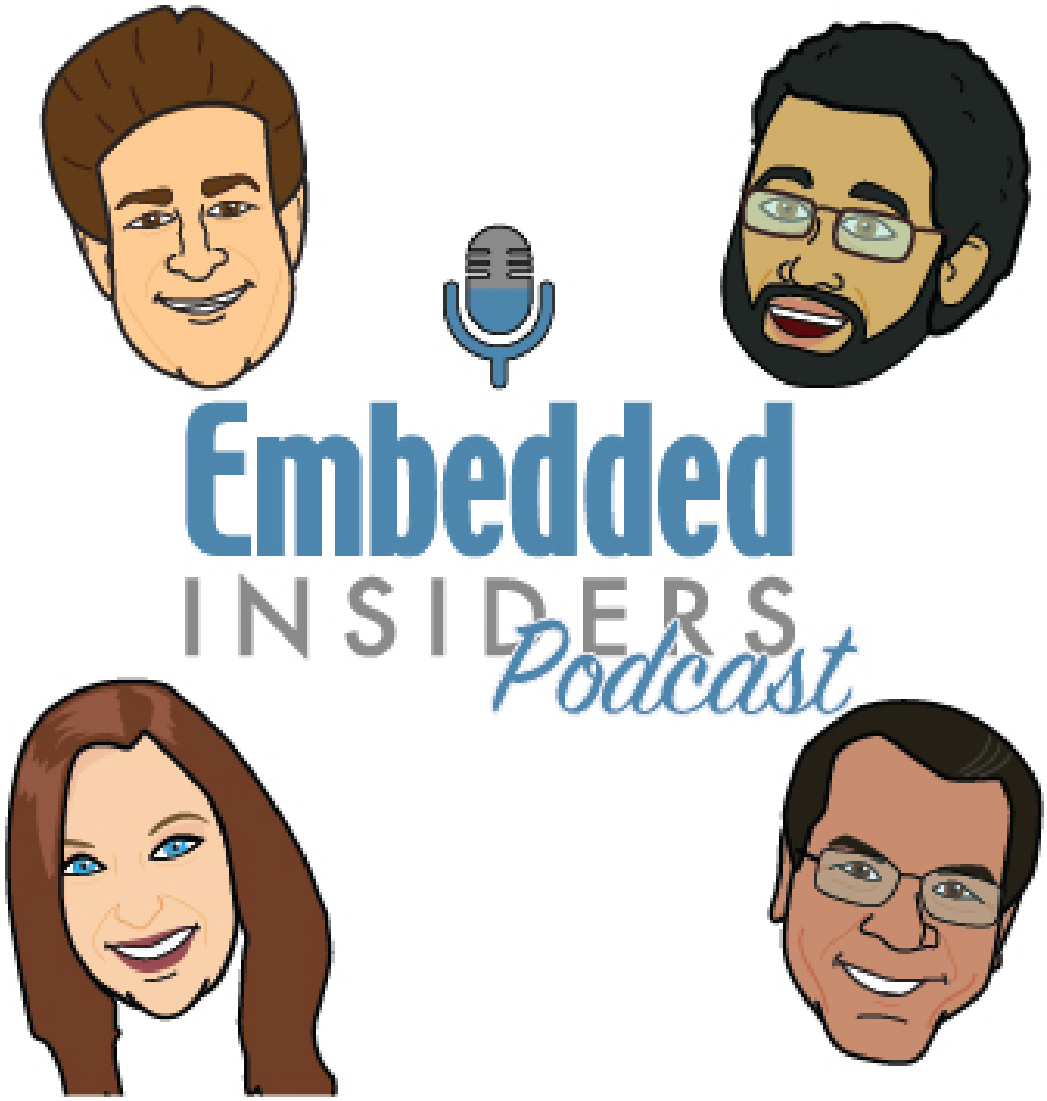
IoT NETWORKING FEATURE

How New Architectures are Overcoming the Limitations of Physics

As Moore's Law loses its battle with physics, compute-in-memory and novel power electronics architectures are emerging that can potentially offset our performance and price demands. New semiconductor manufacturing solutions could help move some of these architectures forward.

Read more



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