



EMBEDDED COMPUTING DESIGN PRODUCT OF THE WEEK

## Product of the Week: NVIDIA Jetson Nano 2 GB Developer Kit

Last year's 4 GB platform costs \$99. Now, after some tweaks, the 2 GB version is just \$59. And although it's in the price range of a Raspberry Pi, it offers the next level of oomph for AI newbies.

[Read more](#)



## **PICMG Ratifies MicroSAM: The New Microcontroller-Agnostic Module Form Factor**

PICMG announced the ratification of the MicroSAM specification. MicroSAM is a new microcontroller-agnostic, ultra-small form-factor module for the enablement of smart sensors.

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### **How to Deploy Actionable Edge AI Apps with Intel OpenVINO, Twilio & Vizi-AI**

Neural networks are maturing and first-gen AI processors are hitting the market. Now we have to deploy these things! Tune in to this episode of Embedded Toolbox as ADLINK Technology's Rob Boville shows us how it's done.

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#### **EMBEDDED NETWORKING NEWS**

### **STMicroelectronics Releases GUI Design with TouchGFX Updates, New STM32 Nucleo Shield**

The new X-NUCLEO-GFX01M1 SPI shield is supported in the latest TouchGFX software, version 4.15.0, which introduces additional new features including support for low-cost non-memory-mapped SPI Flash ICs.

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### **Annual IoT Survey - Engineers! We need your help!**

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#### **EMBEDDED CONNECTIVITY 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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### **Bio-Medical AFE for Connected Health & Remote Monitoring**

With an ageing population, cost of health is rising rapidly. Prevention and early disease detection are helping to control the overall cost of health. To be able to detect anomalies in an early stage, 24/7 monitoring is required.

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## Dealing with Industrial Applications in Harsh Environments

Embedded systems environments can differ based on the specific application, but generally it has to do with temperature, shock and vibration, altitude, and ability to withstand moisture.

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### Tuning Your Hypervisor for Better Embedded System Performance

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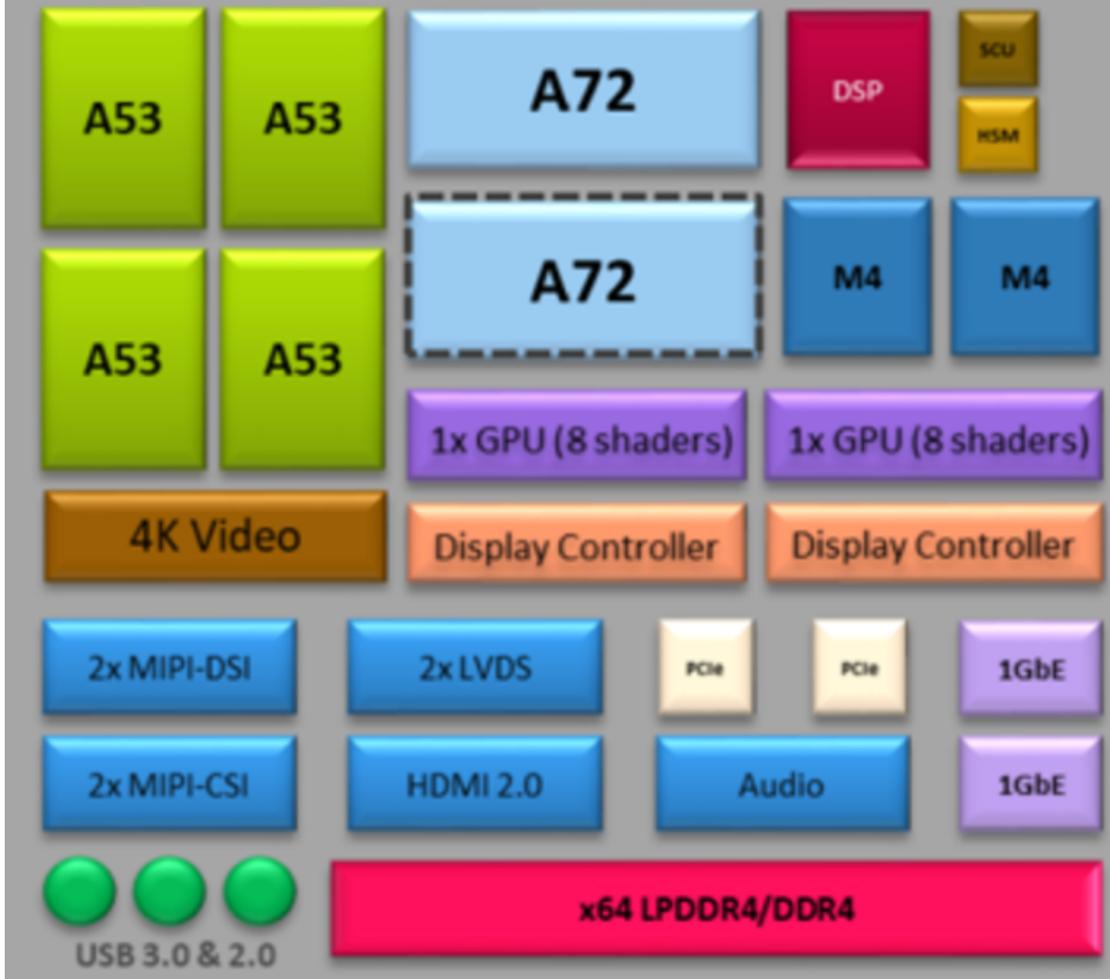
DEVELOPMENT TOOLS & OPERATING SYSTEMS FEATURE

## Software Considerations for Heterogeneous Arm Cores in Safety-Critical Applications

Embedded systems benefit from the use of multicore processors in terms of higher throughput and better size, weight, and power (SWaP). Processors with heterogeneous processor cores add the ability to match applications to the capabilities of each core type, further improving throughput and SWaP. The advantages of multicore processors come with increased complexity in software architectures to maximize the utilization of the processor cores.

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