

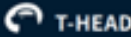
PROCESSORS FEATURE

## Hot Chips: Alibaba's Ultra High-Performance Superscalar Processor - XuanTie910


At the HotChips conference 2020, Alibaba announced the Xuantie-910 RISC-V core which is an ultra high-performance processor with an AI acceleration engine based on RISC-V RV64GCV. It has a remarkable performance of around 40% more than U74 by SiFive.

[Read more](#)

### AI Optimized Vector Computing Engine



- Compatible with RISC-V 0.7.1 Vector Extension
- Supports FP16/32/64, INT8/16/32/64
- 256-Bit Operation Width, VL = 128 and 2 pipelines
- Two 128-Bit Vector ALU Ops per Cycle
- One 128-Bit Vector Load and One 128-bit Vector Store per Cycle
- Direct Access to L1\$ on Vector Load and Vector Store
- Dual-issue Out-of-Order Vector Execution Pipeline
- More than 300GFLOPS of FP16 Computing Power per Cluster  
(32 FLOPS/core/cycle x 2.5 GHz x 4 Cores)
- Half of FP16 computing power when widening to FP32



INDUSTRY NEWS

### EdgeQ Announces Launch from Stealth, \$51 Million in Funding

EdgeQ Announced its launch from stealth with \$51 million in total funding, including \$38.5 million in a Series A round. The launch is funded by a number of investors such as Threshold Ventures, Yahoo! Co-founder Jerry Yang, Fusion Fund, and others.

[Read more](#)

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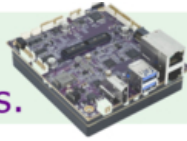
Sponsored by **Arrow**

## Xilinx Announces Collaboration with Texas Instruments to Develop DFE Solutions

Xilinx announced a collaboration with Texas Instruments (TI) to develop digital front-end (DFE) solutions in an effort to increase energy efficiency of lower antenna count radios.

[Read more](#)

**Think Diamond**  
for Nvidia Jetson solutions.



STEVIE™  
Carrier for  
AGX Xavier



### POWER ELECTRONICS NEWS

#### PRBX Releases ENR500D Power Solution

PRBX announced the release of the ENR500D, a 500W platform designed to comply with the EN 50124-1 standard and for the Pollution Degree 2 (PD2).

[Read more](#)

#### ADVERTISEMENT

#### Embedded Toolbox: Create Your Own CBRS Network with MultiConnect Microcell for Remote Learning

Where you live and what school you go to can determine your remote learning experience. In this episode, we implement low-cost, moderate-performance CBRS networks to get ahead of the bell curve.

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### SPONSORED WHITE PAPER

#### 15 Ways to Maximise the Value of Unit Tests in Safety Critical Projects

In safety-critical software development, unit testing is mandated by standards. However, not all tests are built equal. This paper discusses approaches you can take with your unit testing to maximize their contribution to the development process.

[View now](#)

#### ADVERTISEMENT

#### Power Panel: Designing with Wide Band Gap Power Semiconductors

Sponsored by **Texas Instruments, Microchip, Power Integrations**

Date: **December 8, 11:00 a.m. ET**

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### MEDICAL DEVICES SECURITY FEATURE

## Medical Device Security and Achieving Regulatory Approval

Today, the security of medical devices is becoming extremely important to assure customers and patients that interact with your devices that their health and their personal information is taken seriously. Globally, regulators are increasingly requiring and verifying that devices are as secure as possible before and after product release.

