



FH MONDAY

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LG true to its promise

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Factories offer strong market appeal for IoT

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Smartphone-quality graphics to wearables

ARM has announced a low power GPU for wearables and the Internet of Things (IoT). According to the company, the 32bit Mali 470 offers smartphone-quality graphics and requires half the power of ARM's previous graphics processor generation using the same process geometry.

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LG true to its promise: Builds smart fact from science fiction

JEDDAH — Through science fiction you can communicate with a diverse imaginary world replete with unique scientific discoveries and technologies. Today's technology has exceeded even the most fanciful prophecies of science fiction in the past. LG has made wider steps in fulfilling the today's modern technologies, marching ahead toward more promising future scientific advances. Companies are likely to push the limits of hi-tech innovation to stay in the lead. Consumers are always looking for the next superior inventories. It will be vital for a giant firm like LG to continue its heavy investment in research and development to continue launching competitive devices. LG is always rewarded for innovation; it remains one of the top electronics companies in the globe, creating products that are capable of winning over rivals.

The electronic evolution and the increased quality of life LG has been experiencing have caused larger appealing towards the need for more advanced solutions in the future that can guarantee efficient products in every home. With this ground-breaking spirit that has guided the company throughout its march of success; LG remains dedicated to offering customers the total comfort with the highest level of proficiency and sustainability. LG is excited about its future's approach and the prediction for its sustained industrial development and growth. It will continue its vision to deliver a memorable experience for everyone.

Cadence debuts Memory Model for LPDDR5

Cadence Design Systems Inc. has unveiled the Cadence Memory Model for the LPDDR5 standard, which is a verification IP (VIP) product that allows engineers to verify that SoC designs are compliant with the JEDEC interface standard. It also ensures that they can operate correctly in a system with the actual memory components.

Validation of designs using the LPDDR5 memory model reduces the risk of mistakes, rework and delayed production, leading to faster production ramp-up and higher product quality, stated the company.

Dell churns out latest semi-custom servers for cloud

Dell has announced a number of data centre servers geared for custom and semi-custom network infrastructure and storage for tier-two cloud providers and other users. Dell's latest Datacenter Scalable Solutions (DSS) consist of four servers using a custom/semi-custom model to serve customers that fall in between the top 10 data centres and mainstream business users.

The release comes days after the company announced a \$67 billion bid for storage giant EMC, aiming for a loftier role in cloud computing.

Factories offer strong market appeal for IoT

A 2015 McKinsey report has revealed that nearly 40-50 per cent of equipment being used on manufacturing floors will have to be replaced over the next decade. The report also projected that factories will be the next "fertile ground" for Internet of Things (IoT) sensors and technologies that will allow smarter, more automated machine to machine processes that streamline operations, relay data on performance and machine "wellness" for purposes of preventive maintenance, and deliver smarter robots that can assume responsibility for a number of functions.

The news should pique the interest of electronics manufacturers that supply the sensor markets. The growth of the global sensor business between 2011 and 2016 has been a robust 9.1 per cent annually, according to Intechno Consulting, a Swiss-based industry research firm. Much of this sensor uptake is in vehicles, ships and planes. However, a robust amount of activity is also centred in the manufacturing and process industries, with Europe, Japan and the U.S. leading the way.

ARM GPU to bring smartphone-quality graphics to wearables

ARM has announced a low power GPU for wearables and the Internet of Things (IoT). According to the company, the 32bit Mali 470 offers smartphone-quality graphics and requires half the power of ARM's previous graphics processor generation using the same process geometry.

"Every company that contributes IP or components into [IoT] devices needs to do their bit to reduce the amount of power needed by those electronics," said ARM product manager Dan Wilson. "We've made a range of micro-architectural optimisations to power Mali 470," he said.

ARM targeted three areas to cut power in Mali. The company updated most of the chip's processing blocks within the scheduling pipeline to operate on quads, while reducing the frequency of control and state-update operations. ARM also increased the amount of clock gating in areas including L1 caches and completed bypassed blocks.