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5G devt speeds up, ready in a few years

5G systems are no longer just the subject of research within major telecoms companies or the topic of conference presentations at industry forums. The reality is that major OEMs will be deploying 5G systems within the next few years, which means that developments are already advancing rapidly.

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4D Tech Prints Moveable, Shape Changing Objects

The use of 3D printing has become a standard in many research labs. However, some scientists are already looking into adding another dimension to the technology: time.

4D printing creates moveable and shape variable objects such as flat components that can be folded into three-dimensional objects at a later point, or even objects that can change their shape as a function of external influences. Kristina Shea, head of the Engineering Design and Computing Lab at ETH Zurich, and her group have now taken this approach one step further by developing a construction principle that allows them to control the deformation. "The flat structures we produce do not change their configuration randomly, but rather exactly in the way we design them," says Tian Chen, a doctoral student in Shea's group. The structures can also support weight. The ETH scientists are the first to create these kinds of load-bearing 4D printed objects.

Fujitsu Offers High Temp, Low Storage Density FRAM

Fujitsu Electronics Europe (FEEU) has released its second high temperature FRAM, the MB85RS128TY, designed for an operating temperature of up to 125℃ and is qual ified according to AEC Q100 industrial standard. Following the release of a first automotive FRAM in February 2017, this second device in this high temperature product family targets the automotive and industrial market.

MB85RS128TY incorporates 128kbit FRAM memory density, SPI serial interface with a maximum operating frequency of 33MHz, an extended operating voltage range of 1.8V to 3.6V and an operating temperature range of -40℃ to 125℃. As a non-volatile memory, it guarantee s 10 trillion read/write cycles across its full temperature range.

RF Filters Boost MEMS Market

SAN FRANCISCO—The total value of the global MEMS market is projected to grow from about $13 billion in 2017 to more than $25 billion in 2022, driven largely by growth in RF applications like RF MEMS filters, according to a new report by French market research firm Yole Développement.

Increased demand for RF MEMS filters is being driven by the emergence of 4G technology and increasing complexity of cellular communications, according to Yole (Lyon, France). The market research firm expects sales of RF MEMS filters — the biggest business in the RF front-end — to increase at a compound annual growth rate (CAGR) of 35 percent between 2017 and 2022.

"Beyond the development of these RF MEMS devices, the RF front-end demonstrated comfortable growth, at 14 percent CAGR during the same period," said Claire Troadec, Yole's RF devices and technologies activity leader, in a press statement.

Intel Inside DJI Mini-Drone

MADISON, Wis. –DJI, the Shenzhen-based world leader in drones and aerial cameras, rolled out Wednesday (May 24) its first mini-drone — called Spark.

DJI was apparently unfazed by a controversial ruling by the Civil Aviation Administration of China (CAAC) last week that requires all civil-use drones heavier than 250g to be registered online starting June 1.

Packed inside Spark's compact body — measuring 143×143×55 mm and weighing 300g — is a vision processing unit, dubbed Myriad 2, designed by Movidius, now an Intel company.

DJI claimed that Spark is "the first drone that users can control by hand gestures alone." Movidius' Myriad 2 enables the new drone to recognize a user's face and understand his or her signals.

5G Devt Speeds Up, Ready In A Few Years

5G systems are no longer just the subject of research within major telecoms companies or the topic of conference presentations at industry forums. The reality is that major OEMs will be deploying 5G systems within the next few years, which means that developments are already advancing rapidly.

While there is perhaps a general perception to the contrary, 5G systems are no longer just the subject of research within major telecoms companies or the topic of conference presentations at industry forums. The reality is that major OEMs will be deploying 5G systems within the next few years, which means that developments are already advancing rapidly. For example, Ericsson, working with NTT DOCOMO, aims to launch 5G services in Japan in time to support the 2020 Tokyo Olympics. In preparation, it will demonstrate the capability of 5G at the 2018 Winter Olympics in South Korea, in partnership with ST Telecom.