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Japan's Toshiba to Split Apple Shines Despite NeuReality Licenses IBM's **Business into Three** Supply Constraints Low-Precision AI Cores Israeli Al accelerator company Apple's sales hit a record Toshiba plans to split into NeuReality has become the even as overall smartphone three companies as early as first semiconductor startup to shipments fell during the third 2023, aiming to make the license IBM Research's lowquarter of this year amid performance and growth precision high-performance supply shortages. strategy of each sector digital AI cores. As part of the Apple CEO Tim Cook said clearer.. partnership, NeuReality will robust demand fueled record sales totaling \$83.4 billion become a member of the IBM Research Al Hardware during the iPhone maker's Center. most recent financial guarter. read more read more read more FutureHorizons TALK TO US Tessolve Joins GlobalFoundries' **Design Enablement Network** JEDEC Advances Small, Program Changeable Flash Standard **EVENTS** Silicon Chip Industry Tessolve, one of the leading The ability to hot swap providers of semiconductor Seminar storage media from servers or engineering solutions, has consumer electronics is taken -November 2021– London UK joined the GlobalFoundries for granted. A new standard is (GF) Design Enablement aimed making it easier to Industry Forecast Briefing Network Program as a design change out flash memory partner. Tessolve will provide that's typically been soldered - January 2022- London UK into connected devices and design implementation DON'T MISS OUT.services all the way through embedded applications. BOOK NOW BY post-silicon productization. CALLING +44 1732 740440 read more read more OR EMAIL mail@futuraharizana aam

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NeuReality Licenses IBM's Low-Precision AI Cores

Israeli AI accelerator company NeuReality has become the first semiconductor startup to license IBM Research's lowprecision high-performance digital AI cores. As part of the partnership, NeuReality will become a member of the IBM Research AI Hardware Center.

IBM's AI Hardware Center was established in 2019 to support the company's target of increasing AI computing performance by a factor of 2.5 per year, with an ambitious overall goal of 1,000-fold performance efficiency (Flops/W) improvement by 2029. IBM has created an ecosystem of commercial and academic partners to help meet those targets.

Apple Shines Despite Supply Constraints

Apple's sales hit a record even as overall smartphone shipments fell during the third quarter of this year amid supply shortages.

Apple CEO Tim Cook said robust demand fueled record sales totaling \$83.4 billion during the iPhone maker's most recent financial quarter. Revenue soared 29 percent from the same period a year ago despite worsening supply

"We estimate these constraints had around a \$6 billion revenue impact, driven primarily by industry-wide silicon shortages and Covid-related manufacturing disruptions," Cook said on a quarterly-results conference call. "It affected the iPhone, the iPad and the Mac. It is affecting pretty much most of our products currently."

Japan's Toshiba to Split Business into Three

Toshiba plans to split into three companies as early as 2023, aiming to make the performance and growth strategy of each sector clearer, the Nikkei business daily reported Tuesday.

The Japanese firm confirmed to AFP that the option of splitting its business up was under consideration but said nothing had been decided yet.

The Nikkei daily reported, without citing its sources, that Toshiba plans to split into three firms focused on infrastructure, devices and semiconductor memory.

Tessolve Joins GlobalFoundries' Design Enablement Network Program

Tessolve, one of the leading providers of semiconductor engineering solutions, has joined the GlobalFoundries (GF) Design Enablement Network Program as a design partner. Tessolve will provide design implementation services all the way through post-silicon productization.

The strategic partnership with GF aims to bring state-of-the-art design solutions across multiple end markets including automotive, industrial, server, graphics and mobile platforms. As part of this partnership, Tessolve will collaborate with GF to design and develop silicon solutions including Application Specific Integrated Circuits (ASICs), System-on-Chip (SoCs) solutions and test chips, etc.

GF's design enablement team ensures access to PDKs and IP to support the selection of the appropriate technology early in the product design cycle. This will allow Tessolve to help customers productize their ideas quickly, accelerate the design cycle, speed up their development on advanced processes, thereby ensuring customers are meeting their ever-tightening time-to-market goals. This partnership is a great advantage our customers can leverage as the one-stop solution for advanced design needs.

JEDEC Advances Small, Changeable Flash Standard

The ability to hot swap storage media from servers or consumer electronics is taken for granted. A new standard is aimed making it easier to change out flash memory that's typically been soldered into connected devices and embedded applications.

The JEDEC Solid State Technology Association has released its first iteration of the Crossover Flash Memory (XFM) Embedded and Removable Memory Device (XFMD) standard. The spec outlines a new universal data storage media providing an interface between NVM Express (NVMe) and PCI Express (PCIe) in a small, thin form factor.

As it becomes commonplace to switch out SSDs from servers rather than replacing an entire rack, XFMD is designed as a replaceable storage medium for devices that are typically soldered and meant to stay put for the lifespan of the device in which they are embedded.