Search all content

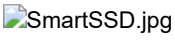
Samsung Electronics Unveils Xilinx-Based SmartSSD Solution

(/web/20191016154347/https://forums.xilinx.com/t5/user/viewprofilepage/user-id/107206)
xilinx-blog (/web/20191016154347/https://forums.xilinx.com/t5/user/viewprofilepage/user-id/107206)
Xilinx Employee

3 0 9,775

10-23-2018 03:08 PM

It has been an exciting couple of weeks for Xilinx, with the Versal (https://web.archive.org/web/20191016154347/https://www.xilinx.com/news/press/2018/xilinx-unveils-versal-the-first-in-a-new-category-of-platforms-delivering-rapid-innovation-with-software-programmability-and-scalable-ai-inference.html) and Alveo (https://web.archive.org/web/20191016154347/https://www.xilinx.com/news/press/2018/xilinx-launches-the-world-s-fastest-data-center-and-ai-accelerator-cards.html) announcements and all of the activities at XDF Silicon Valley and XDF Beijing. Adding to this momentum, at last week's Samsung Tech Day, Samsung Electronics announced SmartSSD, a Xilinx-based (FPGA) SSD that enables high-performance accelerated computing closer to the data, bypassing CPU limitations.



Helping to enable future innovations in the next-generation of data centers like high-performance computing, artificial intelligence and emerging applications, Samsung's SmartSSD powered by Xilinx FPGAs will increase speed and efficiency, and lower operating costs by pushing intelligence to where data lives.

For example, you are looking for an image of a cat. Normally the system would have to transfer the data through the server CPU and then to the storage device and back to the CPU and back to the user. It is significantly more performance and power efficient to have the storage device itself search directly for "cat." That's the beauty of SmartSSDs.

Current Xilinx FPGA-based acceleration solutions are targeted towards compute applications like speech recognition, video transcoding and genomics, and are deployed close to the server CPU. In contrast, SmartSSD is focused on accelerating storage services such as compression, de-duplication and encryption, as well as

AMD 1050
Advanced Micro Devices v. Fermat Int'l
IPR2026-00360

This technology underscores the close technology collaboration between Xilinx and Samsung, and highlights the adaptability and flexibility that Xilinx brings to the data center.

Check out the Samsung announcement (https://web.archive.org/web/20191016154347/https://news.samsung.com/global/samsung-debuts-semiconductor-innovations-at-samsung-tech-day-that-maximize-data-center-efficiencies-and-enable-ai-enterprise-and-emerging-technologies) for more details.

3 Kudos (/web/20191016154347/https://forums.xilinx.com/t5/kudos/messagepage/board-id/xilinx_xclusive/message-id/21/tab/all-users)

(/web/20191016154347/https://forums.xilinx.com/t5/Xilinx-Xclusive-Blog/Samsung-Electronics-Unveils-Xilinx-Based-SmartSSD-Solution/ba-p/902137)

lution%2Fba-p%2F902137&title=Samsung+Electronics+Unveils+Xilinx-Based+SmartSSD+Solution&username=PoweredByLithium)

(/web/20191016154347/https://forums.xilinx.com/t5/Xilinx-Xclusive-Blog/Samsung-Electronics-Unveils-Xilinx-Based-SmartSSD-Solution/ba-p/902137)

You must be a registered user to add a comment. If you've already registered, sign in. Otherwise, register and sign in.

Comment (https://web.archive.org/web/20191016154347/https://www.xilinx.com/registration/sign-in.html?redirectreason=permissiondenied&oamProtectedResource=rh=https%3A%2F%2Fforums.xilinx.com%2Ft5%2FXilinx-Xclusive-Blog%2FSamsung-Electronics-Unveils-Xilinx-Based-SmartSSD-Solution%2Fba-p%2F902137%23comment-on-this)

Latest Articles

Live! XDF Xclusive News (/web/20191016154347/https://forums.xilinx.com/t5/Xilinx-Xclusive-Blog/Live-XDF-Xclusive-News/ba-p/1026229)

Does Your Memory Stack Up? Xilinx Adds 16 GB High-... (/web/20191016154347/https://forums.xilinx.com/t5/Xilinx-Xclusive-Blog/Does-Your-Memory-Stack-Up-Xilinx-Adds-16-GB-High-Bandwidth/ba-p/1020421)

Tiny Alveo U50 Accelerator Card Makes a Big Splash (/web/20191016154347/https://forums.xilinx.com/t5/Xilinx-Xclusive-Blog/Tiny-Alveo-U50-Accelerator-Card-Makes-a-Big-Splash/ba-p/1006600)

In the NIC of Time: Solarflare SmartNIC Now Part o... (/web/20191016154347/https://forums.xilinx.com/t5/Xilinx-Xclusive-Blog/In-the-NIC-of-Time-Solarflare-SmartNIC-Now-Part-of-Xilinx/ba-p/1002417)

The Cat's Meow: Mouser Stocks Xilinx Products for ... (/web/20191016154347/https://forums.xilinx.com/t5/Xilinx-Xclusive-Blog/The-Cat-s-Meow-Mouser-Stocks-Xilinx-Products-for-Faster-Shipping/ba-p/996129)

AI Design Forum 2019 Key Takeaways: Moore's Law Is... (/web/20191016154347/https://forums.xilinx.com/t5/Xilinx-Xclusive-Blog/AI-Design-Forum-2019-Key-Takeaways-Moore-s-Law-Is-Dead-Long-Live/ba-p/994947)

Xilinx Brings On HR All-Star Mini Khroad as Chief ... (/web/20191016154347/https://forums.xilinx.com/t5/Xilinx-Xclusive-

Buffer Be Gone! Xilinx Acquires NGCodec to Deliver... (/web/20191016154347/https://forums.xilinx.com/t5/Xilinx-Xclusive-Blog/Buffer-Be-Gone-Xilinx-Acquires-NGCodec-to-Deliver-High-Quality/ba-p/990357)

It’s Time to Celebrate our Versal ACAP Milestones (/web/20191016154347/https://forums.xilinx.com/t5/Xilinx-Xclusive-Blog/It-s-Time-to-Celebrate-our-Versal-ACAP-Milestones/ba-p/984705)

© Copyright 2019 Xilinx Inc.

PRIVACY

TRADEMARKS

LEGAL

FEEDBACK

SUPPLY CHAIN TRANSPARENCY

CONTACT US