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Author: tariq.ahmad
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Attendees

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 - naveenkumarsolo

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Introduction to LPDDR4 and LPDDR5: Tech and Trends (Winners Announced: Register to Win a Raspberry Pi 4!) Watch On-Demand

When
24 Feb 2021 5:00 PM to 6:00 PM Central Time (US & Canada)

Where
on24

Event Type
Webinar (On24)



Join Amanda Henderson and Todd Legler from Micron to learn about LPDDR4 and LPDDR5 tech and trends. Amanda manages Micron's Embedded Business Unit covering LPDDR4, LPDDR5, and upcoming LPDDR6. She'll go over DRAM market trends related to automotive, industrial medical multi-use (IMM), and consumer adoption. Todd is a Sr. Application Engineer supporting LPDDR4 and Multi-Chip Package memories, driving application strategies for Micron's Embedded Business Unit. He'll walk you through LPDDR4 basic functions such as commands, truth tables, flexible access with dual channel, burst length frequency, On the Fly Frequency Switching, and LVSTL (Low Voltage Swing Terminated Logic). You'll learn the fundamentals of memory selection such as key questions to ask, what are your application specific needs, how to make high performance DRAM comparisons. You'll also learn how LPDDR4 is used in SBCs such as the Raspberry Pi 4 8GB and to enhance your automotive experience through your heads-up display, infotainment, and immersive, software defined cockpit. Finally, you'll learn about Micron's LPDDR5/LPDDR5x; the difference between LPDDR5 and LPDDR4x; and LPDDR5 embedded application adoption in automotive (autonomous vehicles, advanced driver-assisted systems, safety features, in-vehicle infotainment), industrial (complex AI/AR/VR workloads, growing sensor data, intelligent edge devices, drones), and consumer products



(Next-gen DSLR cameras, AI interactive commerce, untethered VR Drives, AR/VR medical rehabilitation).

LPDDR4 was designed to increase memory speed in mobile computing devices such as smartphones, tablets, ultra-thin notebooks, and SBCs such as the Raspberry Pi. The Raspberry Pi's combination of performance, profile and price are made possible by their long relationship with Micron, whose memory solutions have been a key part of their products for years. For Raspberry Pi4, Micron provides the memory supporting the 16Gb and 32Gb LPDDR4 and is — for a third generation of Pi — Raspberry Pi's supplier of choice. During this presentation you are encouraged to **ask questions for a chance to win one of five Raspberry Pi 4s!**

What You'll Learn By Attending:

- General Market as well as Embedded Market adoption trends
- Application examples
- LPDDR4 basic functions
- Memory selection fundamentals
- Brief introduction to LPDDR5 noting what is different from LPDDR4



Micron has been instrumental in leading the definition and adoption of LPDDR4, meeting consumer demands for faster boot and loading times, while fitting within the tight power constraints of the mobile platform. Micron's Automotive LPDDR4 solutions enable next-generation automotive applications. The faster I/O rate delivers speeds up to 3200 Mb/s which supports displays with up to 4K resolution with 3D graphics in automotive infotainment systems, in addition to supporting the requisite memory bandwidth associated with compute intensive SOCs for advanced ADAS capabilities which address collision avoidance and enable safer driving.

Micron offers one of the industry's broadest LPDRAM portfolios, featuring our industry-leading LPDDR4 and cutting-edge LPDDR5. Our wide array of options helps you choose the best balance of features for your design. You'll get the right mix of low-power, high-performance devices coupled with world-class technical support that features simulation models, in-house qualifications and lab analysis.

Ideal Applications:

- Mobile – Handsets and tablets
- Consumer – DTV, digital cameras, wearables, PMP/MP3 players, portable games, personal navigation devices
- Networking – Machine-to-machine (M2M) devices, USB dongles
- Security – Fingerprint detectors, digital surveillance
- Automotive – Infotainment, ADAS, communications, clusters
- Industrial/Medical – Patient monitors, defibrillators, portable ultrasound machines
- Client – Notebooks, ultrathins, convertibles and detachables
- Graphics – Portable games

The Presenters:



Amanda Henderson, Product Line Manager at Micron

Amanda Henderson is the Product Line Manager within Micron's Embedded Business Unit covering LPDDR4, LPDDR5, and upcoming LPDDR6. She spends the majority of her time on new product introductions and supporting the existing longevity business needs of the broadest Embedded LP4 portfolio on the market. Prior to Micron Amanda was enlisted in the United States Navy while simultaneously working on her B.S. degree that launched her now over 20yrs of experience within the Semiconductor industry.



Todd Legler, Sr. Application Engineer, Embedded Business Unit at Micron

I am a 25 year veteran in the electronics field. I am currently working as a Sr. Application Engineer supporting LPDDR4 and Multi-Chip Package memories, driving application strategies for Embedded Business Unit. I spent 2 years at Numonyx (acquired by Micron on May 7, 2010) and spent 12 years at Intel Corporation in numerous positions. My Intel experience includes being Flash Architect for NOR and PCM technology. I have been granted 4 patents involving NOR and PCM memory architectures.

- ddr4 ram micron lpddr4 double data rate random access memory random access memory storage memory raspberry pi 4 ddr double data rate memory double data rate recording_available dram lpddr5 ddr5

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Top Comments

- tariq.ahmad** over 4 years ago +10
Congratulations to javagoza , ajayvishaal , wolfgangfriedrich , embeddedguy , and alrms ! You are the winners of the Raspberry Pi 4s!
- javagoza** over 4 years ago +5
I just received the Raspberry Pi 4GB . Thank you tariq.ahmad !
- kecy6cjh** over 4 years ago +3
Very informative session!

Oldest **Best** Newest

tariq.ahmad over 4 years ago
Congratulations to [javagoza](#) , [ajayvishaal](#) , [wolfgangfriedrich](#) , [embeddedguy](#) , and [alrms](#) !

You are the winners of the Raspberry Pi 4s!

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javagoza over 4 years ago in reply to tariq.ahmad
Thanks! Nice surprise!

Like Reply More

ajayvishaal over 4 years ago in reply to tariq.ahmad
Thank You [tariq.ahmad](#)
Thank you element14!

javagoza over 4 years ago
I just received the Raspberry Pi 4GB 😊. Thank you [tariq.ahmad!](#)



- kecy6cjh** over 4 years ago
Very informative session!
- redcharly** over 4 years ago
Congratulations, very interesting webinar, the evolution of memories is really impressive, 10 years ago similar characteristics would have seemed impossible to obtain! Thanks to Micron and Element14.
- jomoengineer** over 4 years ago
This was a great webinar. Amanda and Todd provided some awesome info and some numbers regarding Micron's LPDDR offerings. The cool thing is that they are local to my area and I have driven by the Micron site a number of times. I used to work down the street at Intel and then Toshiba working on NVMeE SSDs.

I want to learn more about LPDDR and its use in Robotics.

Thanks Tariq for sharing this.

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