Hacking the Packet in ASIC with an eFPGA

STAC 2022

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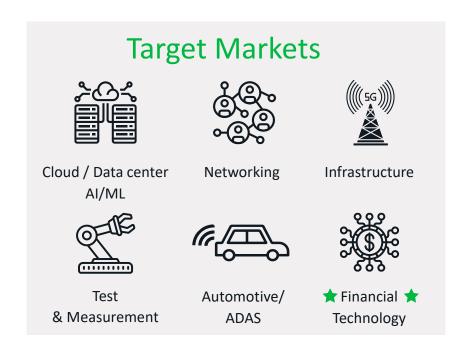




Achronix Corporate Overview



- The only independent supplier of high-end FPGAs and eFPGA IP solutions
- Founded in 2004, profitable and strong financial position for IPO in 2023
- Headquarters in Santa Clara, CA

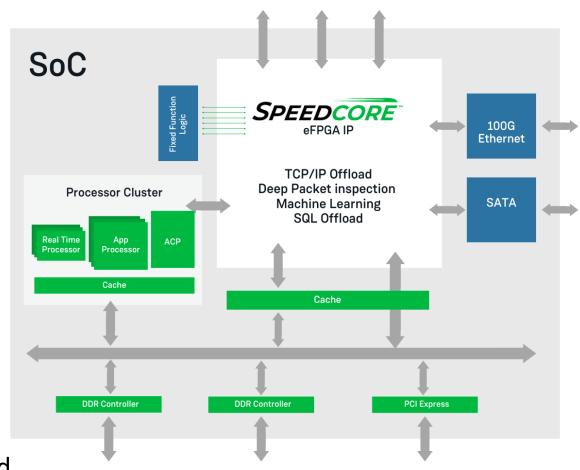




Achronix Speedcore Embedded FPGA (eFPGA) IP



- Speedcore eFPGA IP is a customized FPGA fabric for integration into an SoC or ASIC
- Customers define the amount of FPGA resources needed for their eFPGA implementation:
 - LUTs
 - Memory
 - DSP / MLP blocks
 - 2D NoC
- Available on TSMC 16FFC, 12FFC and N7 today
 - Able to port to any node at any foundry
 - Delivered in GDSII format
 - Supported with ACE development tools
- Achronix is the only supplier that offer eFPGA IP and FPGAs with over 15M eFPGA IP cores shipped



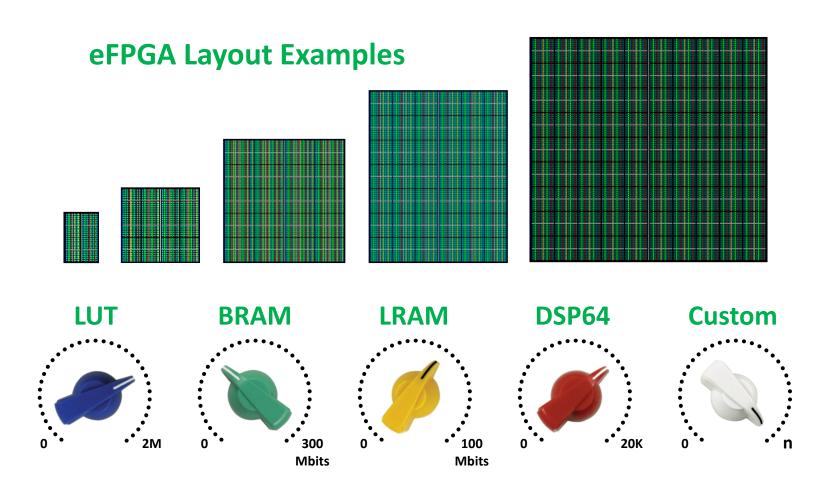
Flexible eFPGA Fabric Configuration and Sizing



 Resources are designed as building block structures that can easily be combined to build any size eFPGA

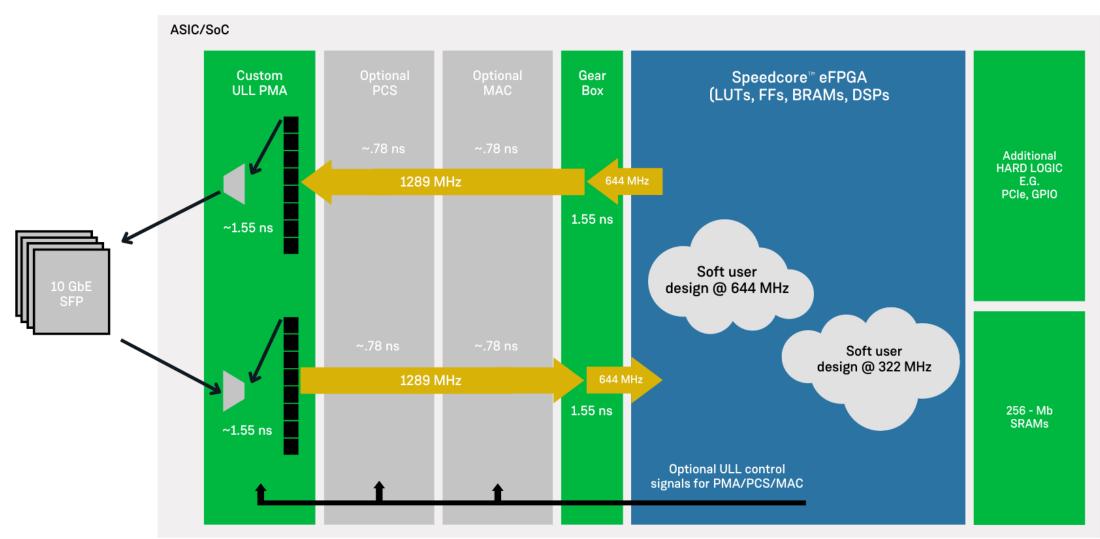
 Custom eFPGA IP resource mix is defined by the customer

 IP delivered as physically laid out transistors for efficient ASIC integration



UDP-to-TCP Latency - Under 10 ns with Ultra-Low-Latency Data Path





Thank you

Let's connect

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