Memory Market/ IP Licensing Dynamics

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Tuesday Aug. 6 at 9:45 AM Pacific Time.

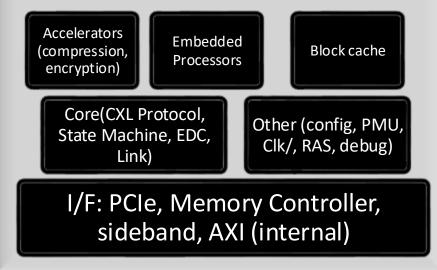
IP: Memory/Storage

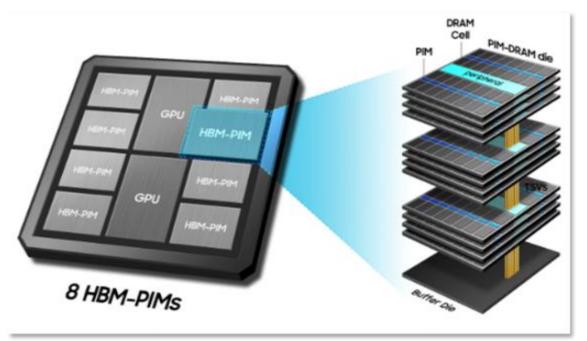


Nvidia Blackwell : <u>800GB/s embedded</u> Decompression engine



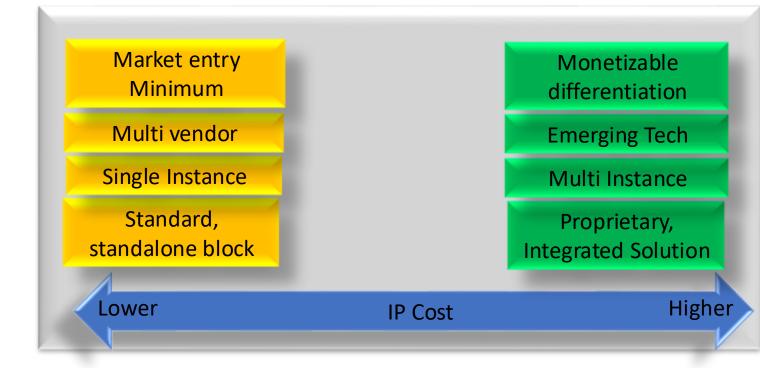
Sample CXL controller: IP Blocks





IP: Memory/Storage Dynamics

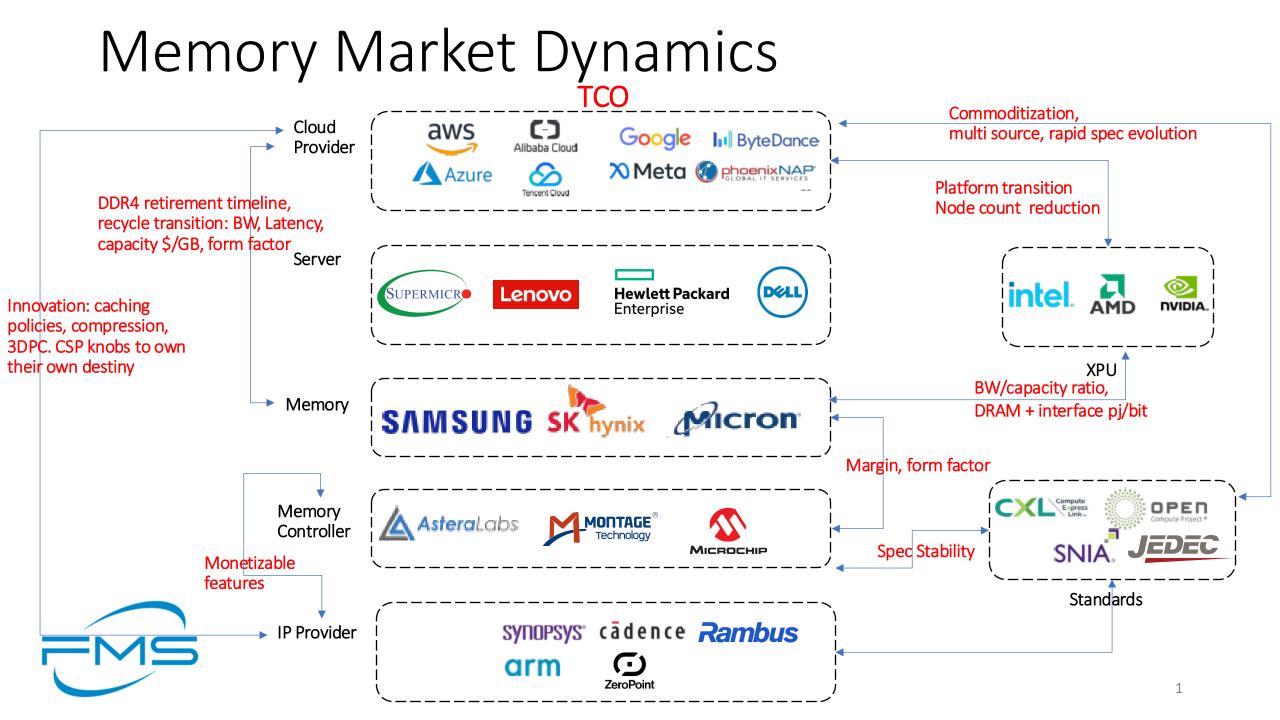
- TTM (Monetizable Innovation, Reuse, Core competency)
- License fees + tech support v/s Development Headcount
- Ecosystem development, standards, ease of integration
- Shared risk option: NRE + Royalty



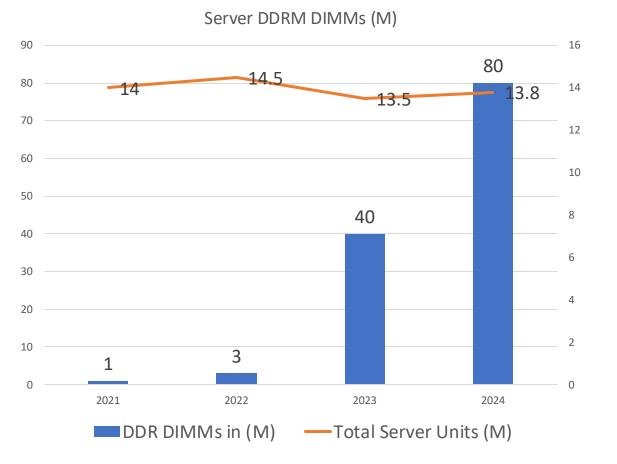


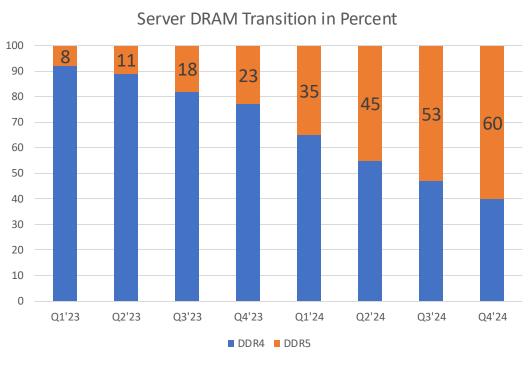
Memory Market Ecosystem





DDR5 transition

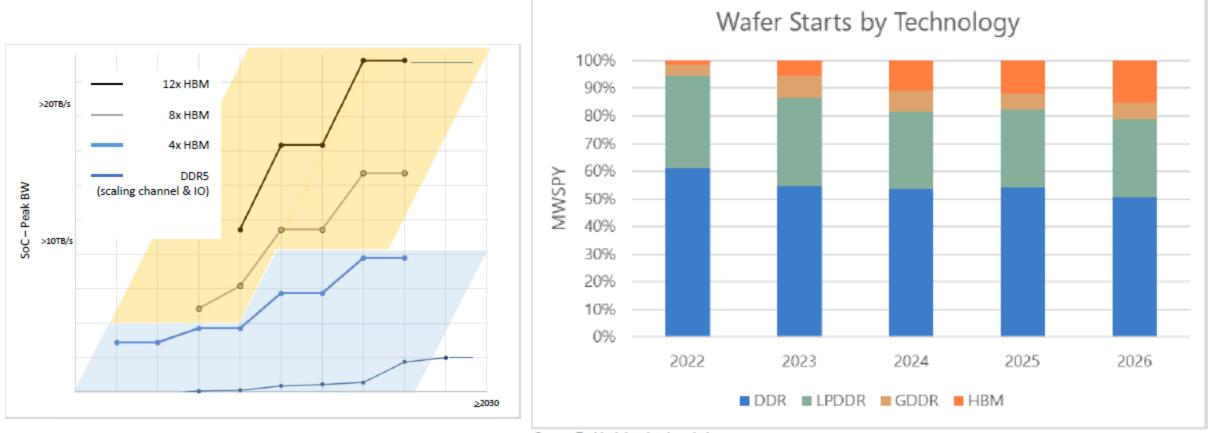




Source: Suppliers, Yole, IDC, Montage Technology internal estimates

Credit: Geof Findley, Montage Technology [2024 CXL Devcon presentation]

DRAM trends: HBM Implications for AI



Source: TechInsights, Intel analysis



Credit: Dimitrios Ziakas, Intel [2024 JEDEC Forum presentation]

Key Messages/ Call To Action

- Complex dynamics driving Memory, Storage markets
- IP licensing crucial to memory & storage new technology time to market
- Ecosystem Collaboration: Emerging Standards(UAL, UCIe, UEC, CXL,etc) + Chiplet technology enable emerging memory types/ new architectures , product innovation opportunities

