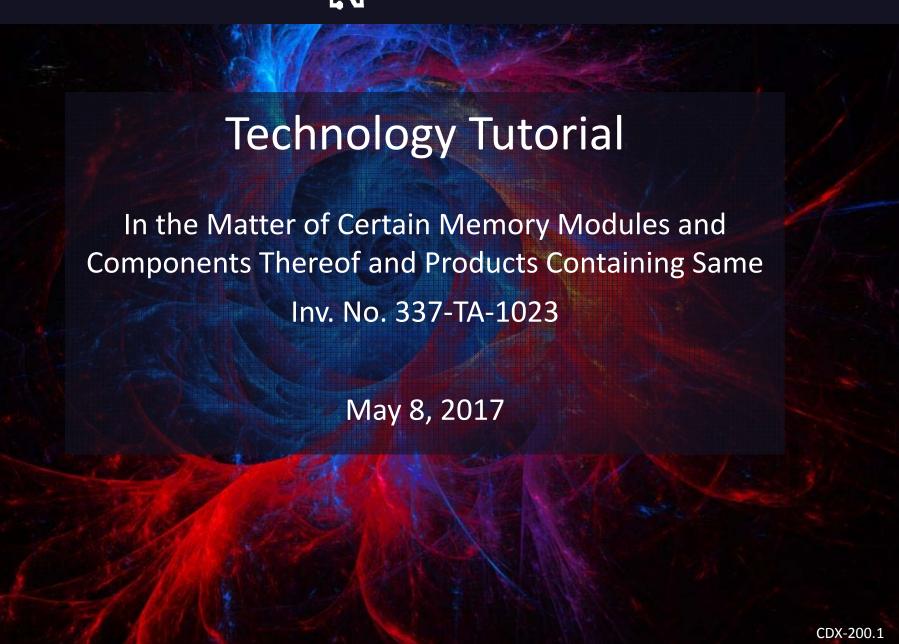
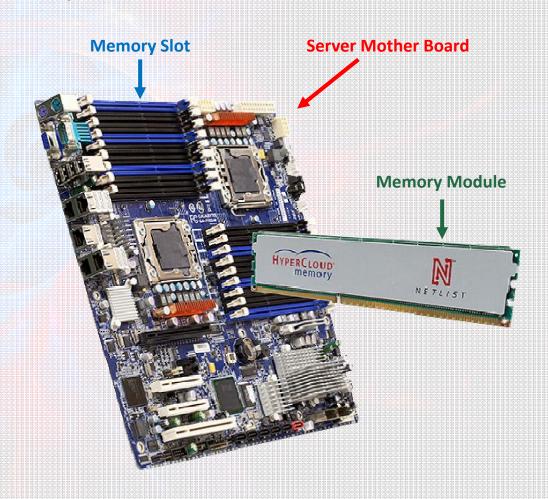
NETLIST



Technology Overview: Memory Module

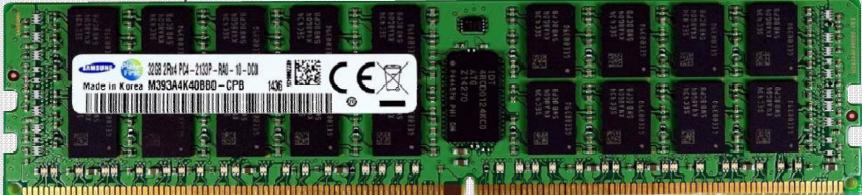
The Netlist Patents relate to memory modules in a server

- A memory module is inserted in a memory slot in a server's mother board
- Memory modules are called Dual In-Line Memory
 Modules (DIMMs) because there are in-line connections on each side of the module



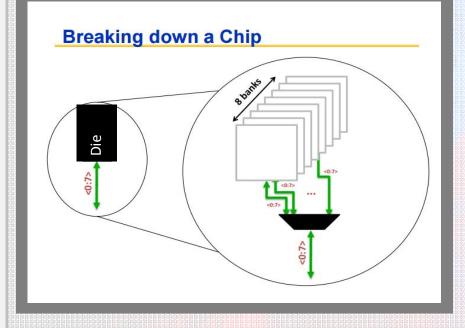
Technology Overview: What is Memory?

- Memory is used to store information for fast access by the processor
- Memory commonly used today is SDRAM or synchronous dynamic random access memory
 - SDRAM emerged in the 1990s and has been standardized by the JEDEC (Joint Electron Devices Engineering Council)
 - SDRAM has evolved in several generations, including DDR, DDR2, DDR3 and currently DDR4

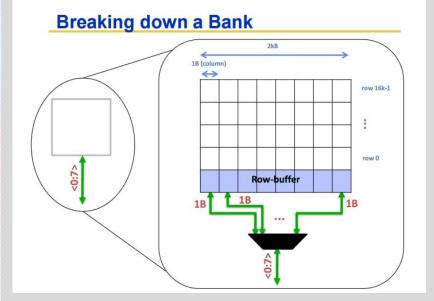


Technology Overview: SDRAM Fundamentals

SDRAM contains several sections called banks

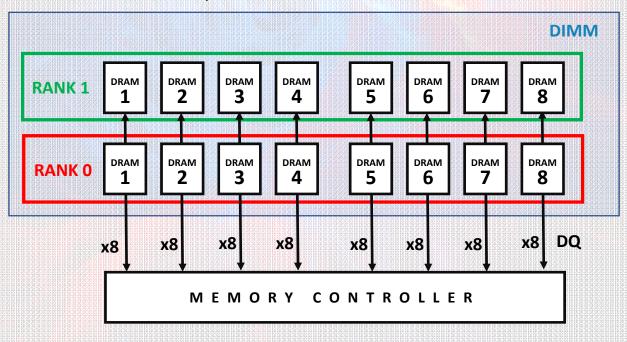


Each bank consists of rows and columns of memory



Technology Overview: Memory Ranks

- A rank is a set of DRAMs that are written to or read from together
- For example, a memory controller reads or writes 64 DQ (data) bits at a time
 - Each DRAM reads/writes 8 DQ bits (x8, or by eight)
 - Need 8 DRAMs in a rank to provide the 64 bits at once



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