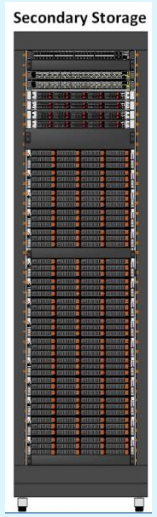
# Big Data / Hadoop Refresh

## High Capacity Hadoop Cluster

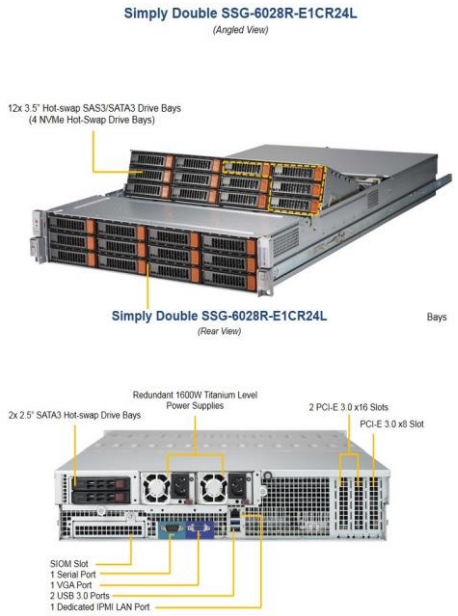
- Storage-heavy big data cluster with 18x 2U 24x3.5” bay systems
- Maximum 240TB per node, 4320TB storage per rack
- Flexible SIOM with 10G/25G options
- Suitable for Tier2 storage or Hadoop/HDFS




**Optimized for Autonomous Industry**
704 max total compute cores
54TB max total memory
384 max total Drives

**SAS3 Drive Option**
15K: 250-300MB
IOPS: 100-200

## Simply Double Server
Secondary Data Storage




**Key Features**

1. Dual socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 **v4**†/ v3 family; QPI up to 9.6GT/s
2. Up to **3TB**† ECC 3DS LRDIMM , up to DDR4- **2400**†MHz ; 24x DIMM slots
3. 2 PCI-E 3.0 x16, 1 PCI-E 3.0 x8
4. SIOM for flexible networking options
5. 24x 3.5" Hot-swap SAS3/SATA3 drive bays; optional 2x 2.5" Hot-swap rear SATA drive bays
6. Broadcom 3008 SAS3 IT mode controller
7. Server remote management: IPMI 2.0 / KVM over LAN / Media over LAN
8. 5x 8cm hot-swap redundant PWM fans
9. 1600W Redundant Power Supplies **Titanium Level (96%)**

# Typical Applications

- **Financial Services**
  - Financial services companies use analytics to assess risk, build investment models, and create trading algorithms; Hadoop has been used to help build and run those applications.
- **Retail**
  - Retailers use this solution to help analyze structured and unstructured data to better understand and serve their customers.
- **Oil and Gas / Energy**
  - In the asset-intensive energy industry Hadoop-powered analytics are used for predictive maintenance, with input from Internet of Things (IoT) devices feeding data into big data programs.
- **Telecommunications**
  - use Hadoop-powered analytics to execute predictive maintenance on their infrastructure.
  - Big data analytics can also plan efficient network paths and recommend optimal locations for new cell towers or other network expansion.