



Servidores de Misión Crítica, HPC y  
Cómputo en la periferia

# Servidores HPE: el portafolio más completo de la industria

Optimizados por carga de trabajo, para cualquier necesidad



## ProLiant ML

Servidores de Torre expandibles

**Converged & HyperConverged**

## ProLiant DL

Servidores optimizados para rack versátiles

**Cloud Line**

## ProLiant BL

Infraestructura Convergente – lista para la Nube

**Synergy**

## HP Moonshot

El primer servidor definido-por-software

## EdgeLine

Acceso a datos en la Internet de las Cosas (IoT)

**Apollo & SGI**

## HP MC & NonStop

Optimizados para Misión Crítica y continuidad de negocios

**Superdome X**



# Servidores HPE de Misión Crítica

# Servidores Itanium – UNIX



## **Intel® Itanium® Processor 9700 series**

- Up to 2.66GHz frequency
- Support for i2, i4 and i6 processors in same enclosure

## **Integrity Options update**

- Memory refresh for 8GB and 16GB
- New processors enabling iCAP
- New HPE Storage, IO support\*
- Platform for future enhancements\*

## **HP-UX 2017 Fusion Release**

- 8TB single instance in SD2
- Veritas File System v6.1
- HP-UX vPars Online Migration v6.4
- Smart Quorum in Serviceguard
- Oracle 12c R1 support with SG SMS
- OpenStack support



**HPE Superdome 2 with  
CB900s i6 Server Blades**



**HPE Integrity Rack rx2800 i6 Server**



**HPE Integrity BL8x0c i6 Blade Server**

## Sustaining longevity with HPE Integrity Rack-mount



**HPE Integrity  
rx2800 i6  
Server**

	HPE Integrity rx2800 i6
CPU type	Intel® Itanium® 9700 series, socket compatible with 9500 series
New Processor SKU's	Intel® Itanium® 9720 4-core 1.73 GHz/20 MB (L3) Intel® Itanium® 9750 4-core 2.53 GHz/32 MB (L3) Intel® Itanium® 9740 8-core 2.13 GHz/24 MB (L3) Intel® Itanium® 9760 8-core 2.67 GHz/32 MB (L3)
Processor sockets	2
Memory	24 DIMM slots; 1.35V DDR3 8GB, 16GB DIMMs
HDD	8 (eight) hot-plug SAS HDDs and SSDs
Embedded NICs	4-port 1GbE and 10GbE
Embedded Controller	1 HP p410i SAS RAID w/512MB cache
I/O Expandability	Up to 6 slots
Virtualization	HPVM, vPars v6.4
OS	<b>HP-UX 11i v3</b>
Form factor	2U rack-mount and pedestal tower form-factor for office deployments
Options & Accessories	See I/O and Storage roadmaps

# Sustaining longevity with HPE Integrity Blades



**HPE Integrity  
BL8x0c i6  
Server Blades**

	BL860c i6	BL870c i6	BL890c i6
<b>CPU type</b>	Intel® Itanium® 9700 series, socket compatible with 9500 series		
<b>New Processor SKUs</b>	Intel® Itanium® 9720 4-core 1.73 GHz/20 MB (L3) Intel® Itanium® 9750 4-core 2.53 GHz/32 MB (L3) Intel® Itanium® 9740 8-core 2.13 GHz/24 MB (L3) Intel® Itanium® 9760 8-core 2.67 GHz/32 MB (L3)		
<b>Processor Sockets</b>	2	4	8
<b>Memory</b>	24 DIMM slots; 1.35V 8GB, 16GB DIMMs	48 DIMM slots; 1.35V 8GB, 16GB DIMMs	96 DIMM slots; 1.35V 8GB, 16GB DIMMs
<b>HDD Slots</b>	2	4	8
<b>Embedded Controller</b>	1 HP p410i SAS RAID w/512MB cache	2 HP p410i SAS RAID w/512MB cache	4 HP p410i SAS RAID w/512MB cache
<b>Embedded NICs</b>	4 FlexFabric (FCoE)	8 FlexFabric (FCoE)	16 FlexFabric (FCoE)
<b>IO Mezz Slots</b>	3 Gen2 PCIe	6 Gen2 PCIe	12 Gen2 PCIe
<b>Virtualization</b>	HPVM, vPars v6.4		
<b>OS</b>	HP-UX 11i v3		
<b>Options &amp; Accessories</b>	See I/O and Storage roadmaps		

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## Sustaining longevity with HPE Integrity Superdome 2



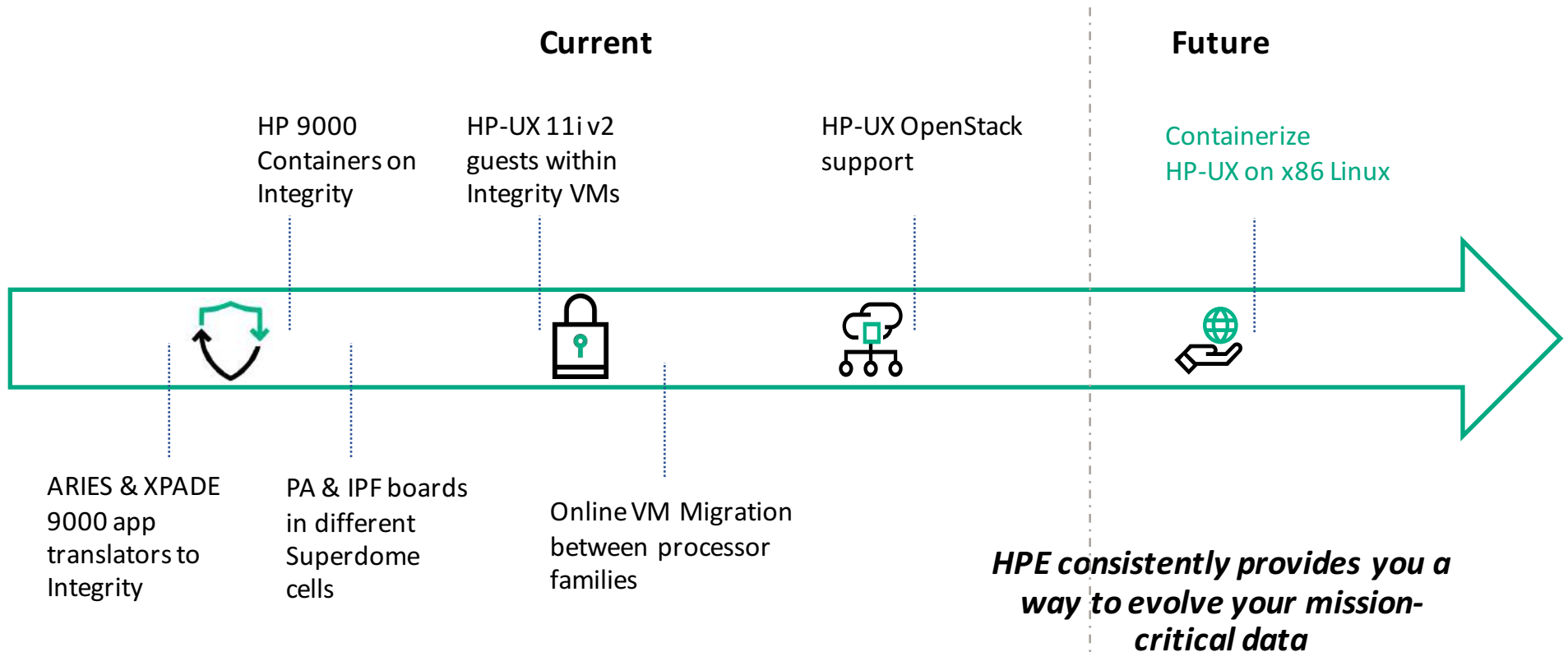
	CB900s i6
<b>CPU type</b>	Intel® Itanium® 9700 series, socket compatible with 9500 series
<b>New Processor SKU</b>	Intel® Itanium® 9740 8-core 2.13 GHz/24 MB (L3) Intel® Itanium® 9760 8-core 2.67 GHz/32 MB (L3)
<b>Processor sockets</b>	2 processors per blade
<b>Capacity on Demand</b>	PPU, iCAP, TiCAP, GiCAP
<b>Memory per blade</b>	32 DIMM slots; 1.35V DDR3 8GB, 16GB DIMMs
<b>OS</b>	HP-UX 11i v3
<b>Virtualization</b>	HPVM, vPars v6.4
<b>Enclosure form factor</b>	8 cell blades per 18U enclosure
<b>Options &amp; Accessories</b>	See I/O and Storage roadmaps

This is a Statement of Direction and is subject to change without notice.



## Protect and evolve your HP-UX investment

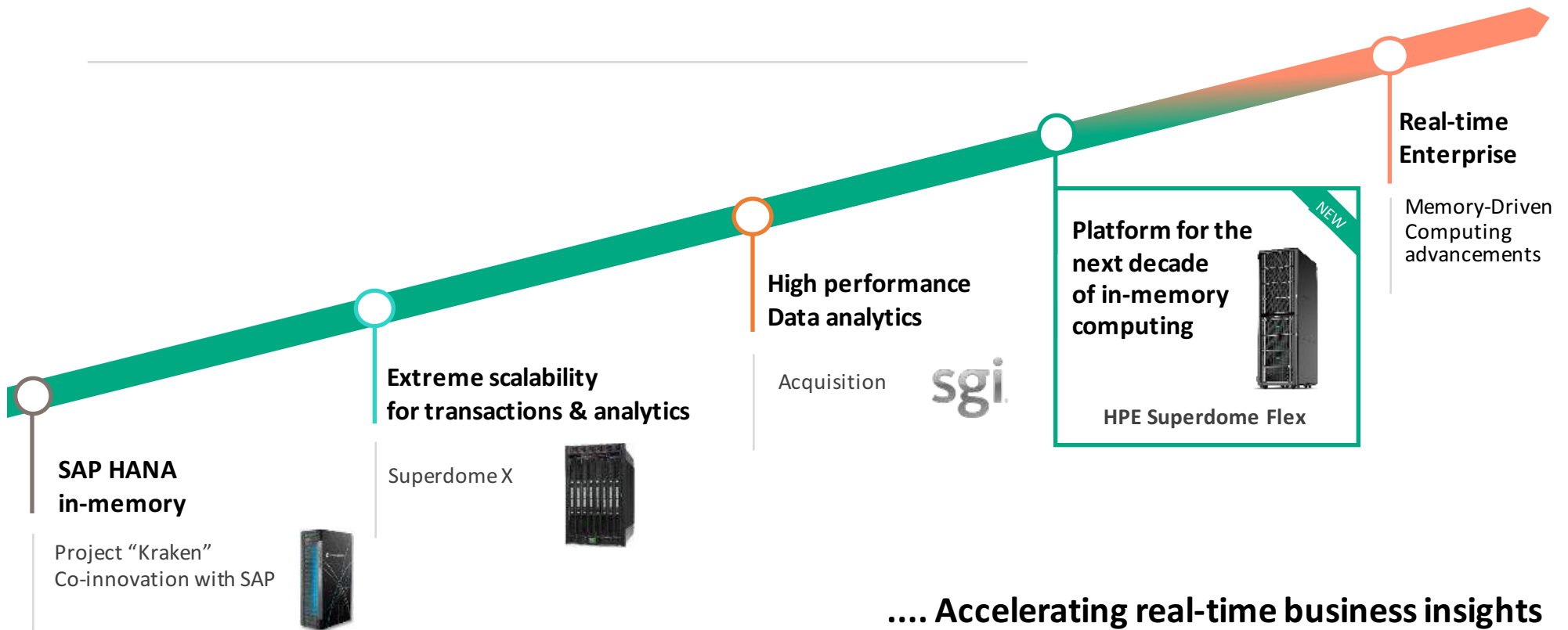
A vision that enables you to move forward with stability





# Advancing the real-time enterprise journey

—Empowering the data-driven enterprise...



.... Accelerating real-time business insights

# Flexible modularity and extreme scale for Linux workloads

## Introducing HPE Integrity MC990 X Server

### HPE Integrity MC990 X



**Business  
processing**



**Real-time  
analytics**



**4 to 32-socket  
price/performance value**



### Optimized for data-intensive workloads

- **NEW!** Starts at a 4-socket configuration, expandable to 32-sockets
- **Scale** critical workloads to 32-sockets
- **Performance gains** with up to 48TB of memory for in-memory databases
- **Downtime protection** with Intel Xeon E7 reliability and Serviceguard for Linux support
- **Data analytics** with SAP-HANA TDI certification
- **Deploy with confidence** with HPE mission critical experience, services and support

# MC990 X Specifications



Spec	Description
Compute	Support for up to 32 Intel® Xeon® processor E7-8800 v4 family
Processors	Intel Xeon Processor E7-8867 v4 18-core/2.4GHz/165W/45M Intel Xeon Processor E7-8880 v4 22-core/2.2GHz/150W/55M Intel Xeon Processor E7-8890 v4 24-core/2.2GHz/165W/60M Intel Xeon Processor E7-8891 v4 10-core/2.8GHz/165W/60M Intel Xeon Processor E7-8893 v4 4-core/3.2GHz/140W/60M
Memory	96 DDR4 DIMM slots per 4-socket server Maximum memory: 48TB (768x 64GB DIMMs) 8 GB, 16 GB, 32 and 64 GB DDR4 DIMMs
Base IO	2x 1.8" SATA SSD slots, 6Gb/s; 4x USB 2.0 ports; 1x Gb Ethernet port
Internal drive slots	4x 2.5" SAS HDD or SSD (up to 4) with option for hardware RAID
IO expansion options	8 PCIe 3.0 slot option: (4) x16 full-height slots, (8) x8 slots, and 4-drive carrier 12 PCIe 3.0 slot option: (4) x16 full-height slots and (8) x8 slots
Operating systems	<b>SUSE® Linux® Enterprise Server 11 &amp; 12, Red Hat® Enterprise Linux 6 &amp; 7, Oracle Linux 7, Oracle VM 3.4</b>
Form Factor	4s: 5U server chassis; [RMC: Rack Management Controller adds 1U]; width: 17.5" (44.5cm); length: 31.8" (80.8cm)

# HPE Integrity MC990 X TDI Compute Blocks for SAP HANA



Configurations	Scale-up	BWoH/DM/SoH/S4H	Memory
		4 to 8-sockets	256 GB, 512 GB, 1 TB, 1.5 TB, 2 TB, 3 TB, 4 TB
	Scale-up	SoH/S4H	Memory
		4 to 20-sockets	4 TB, 6 TB, 8 TB, 9 TB, 10 TB, 12 TB, 15 TB, 16 TB, 20 TB
Processor	Intel Xeon E7-8890 v4 @ 2.2GHz/24-cores Intel Xeon E7-8880 v4 @ 2.2GHz/22-cores		
Operating Systems	SUSE Linux Enterprise Server (SLES) for SAP 12 SP1 Red Hat Enterprise Linux (RHEL) 7.2 for SAP HANA		

For configuration details, reference: [Certified and Supported SAP HANA® Hardware](#)

# HPE Integrity Superdome X Server



- Accelerate business growth with groundbreaking mission-critical performance and availability
- at industry-standard efficiencies



Move at the speed of business with groundbreaking performance  
Fastest x86 platform for ERP business applications



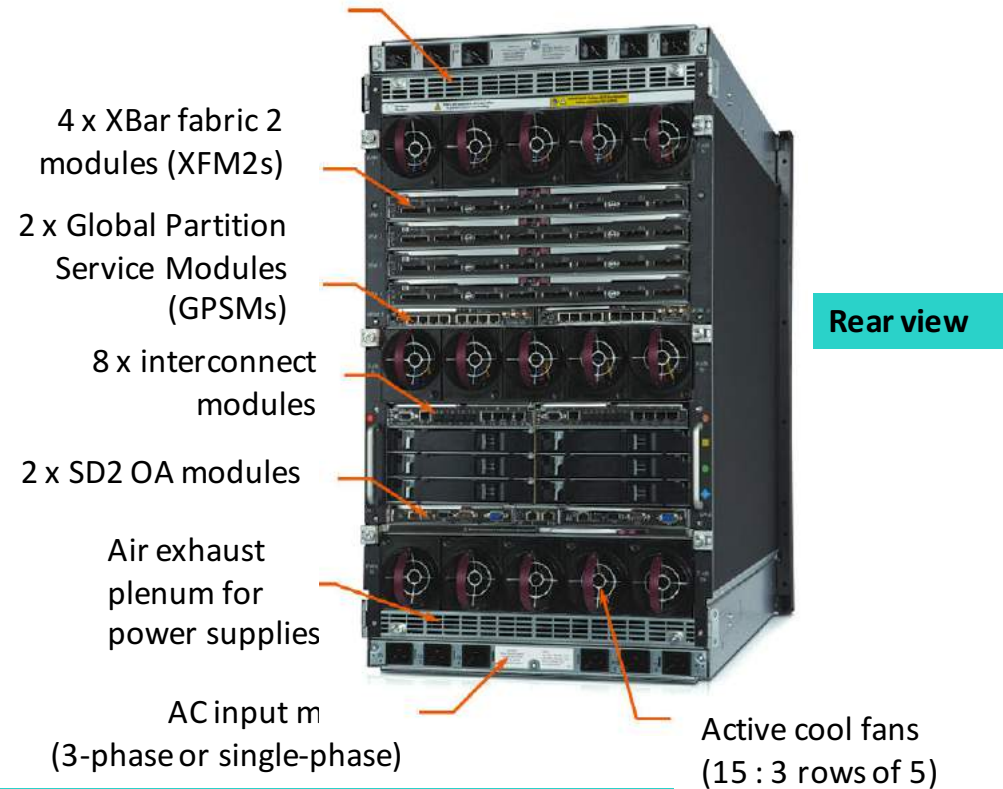
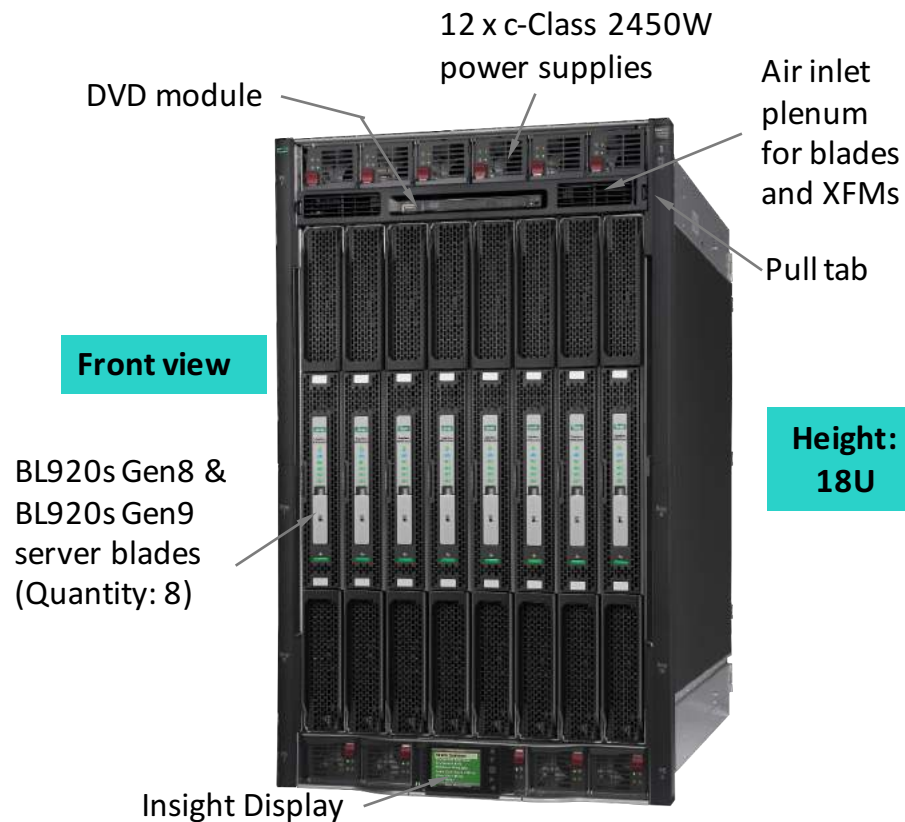
Increase competitive differentiation and reduce business risk  
20x more reliable than other x86 servers and five nines (99.999%) availability



Redefine economics for mission-critical compute  
45% lower TCO compared to Oracle Exadata



# Superdome X at a glance



All components front or rear accessible for easy serviceability

# Benefit from proven reliability, availability, and serviceability



- The ideal foundation for your mission-critical Linux environment

## End-to-end mission-critical design

### HPE firmware

- Advanced error reporting
- Viral error containment

### HPE hardware

- Advanced memory error recovery
- Corrupt data containment
- LER containment

### OS level RAS

- PCIe Live Error Recovery (LER)
- Advanced MCA recovery

### Processor RAS

- QPI Link error resiliency (Link level retry, width reduction, CRC checking)



Superdome X

## Extending the proven HPE Integrity Superdome 2 mission-critical RAS features

### HPE fault management

- Diagnostics
- Error analysis engine
- True 'One Stop' fault management

### Self healing

- PCIe and Memory link self-healing
- Deconfiguration at boot (core, DIMM and blade)
- Runtime deactivation (DIMM, I/O, and fabric)

### Memory RAS

- Proactive memory scrubbing
- Enhanced DDDC + 1 (**banks, too**)
- **Addr/Cmd Parity error resiliency**

### Platform RAS

- Clock redundancy and hot-swap
- Fault-tolerant cross-bar fabric (link-level retry, width reduction, end-to-end retry)

### Partitioning/error isolation

- Cross bar and hard partitions

### Serviceability

- Redundant, hot swap:
  - Power supplies and fans
  - I/O interconnect modules
  - HPE Onboard Administrators
  - Global Partition Service Modules

Superdome X RAS features begin where most commodity x86 servers leave off



# HPE Superdome Flex

Power critical apps, enable real-time analytics, tackle in-memory HPC workloads

## Turn critical data into real-time insights

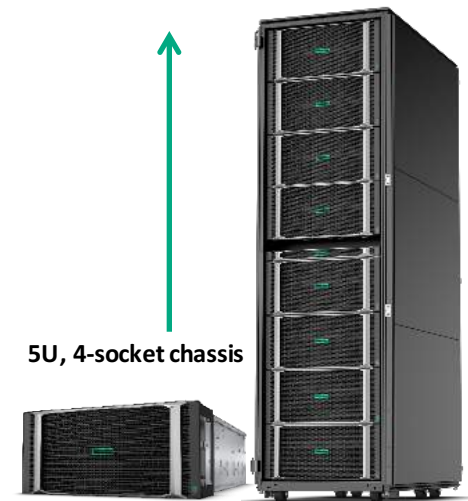
- Unparalleled scale: 4–32 sockets as a single system
- 768GB–48TB shared memory
- Highly expandable for growth; ultra-fast fabric

## Keep pace with evolving business demands

- Unique modular 4-socket building block
- Never outgrow, no over-provisioning
- Open management for hybrid IT consumption

## Safeguard mission-critical workloads

- Proven Superdome RAS with 99.999% single-system availability
- Mission-critical expertise with HPE Pointnext services



5U, 4-socket chassis

Unmatched combination of scale, flexibility, performance and availability



# World's most scalable and modular in-memory computing platform

## HPE Superdome Flex

Scales up to 8 chassis and 32 sockets as a single system in a single rack

SAP HANA

5U, 4-socket chassis



ABSA | Datacom



### Unparalleled Scale

- Modular scale-up architecture
- Scales seamlessly from 4 to 32 sockets as a single system with both Gold and Platinum processors
- Designed to provide 768GB-48TB of shared memory
- High bandwidth (13.3GB/sec- bi-directional per link)/low latency (<400ns) HPE Flex Grid
- Intel® Xeon® Scalable (Skylake) processors with up to 28 cores

### Unbounded I/O

- Up to 128 PCIe standup cards, LP/FH PCIe

### Optimum Flexibility

- 4-socket chassis building blocks, low entry cost; HPE nPARs
- Nvidia GPUs, Intel SDVis
- 1/10/25 Gbe, 16GbFC, IB EDR/Ethernet 100gb, Omni-Path
- SAS, Multi-Rail LNet for Lustre; NVMe SSD
- MPI, OpenMP

### Extreme Availability

- Advanced memory resilience, Firmware First, diagnostic engine, self-healing
- HPE Serviceguard for Linux

### Simplified User Experience

- HPE OneView, IRS, Openstack
- HPE Proactive Care

# Servidores HPE para High Performance Computing (HPC)

# Enterprise bridge to HPC: dense, secure & flexible system

HPE Apollo 2000 Gen10 System



HPE Apollo 2000 Gen10 System delivers twice the density of traditional rack mount systems and firmware-level server security with a flexible scale-out architecture for your HPC workloads

## Data Center Optimization

- Save space and operations cost: 2x density in 1U servers in a standard form factor; four 1U servers in 2U
- Comprehensive manageability: Extensive set of tools for node to rack management

## Comprehensive Server Security

- **Silicon Root of Trust:** Only HPE offers the industry standard server with firmware anchored into the silicon
- **Commercial National Security Algorithms:** Only HPE offers the highest level of security and cryptography
- **Secure Recovery:** Recover firmware to last known good state, if code compromised
- **Firmware Runtime Validation:** Daily firmware check and alert of compromised code

## Flexible Scale-out Architecture

- **Mix and Match servers:** in the same chassis for workload optimization with accelerators, top bin CPUs, fast HPC clustering
- **Storage and I/O flexibility:** optimize for performance or economy, to get the right compute for the right workload

# Enterprise bridge to HPC: dense, secure & flexible system

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## Data Center Optimization

- **Save space and operations cost:** 2x density in 1U servers; four 1U servers in 2U
- **Comprehensive manageability:** Extensive set of tools for node to rack management
  - **HPE iLO 5 Management** saves administration time and cost
  - **HPE Apollo Platform Manager 3** provides rack level management
  - **HPE Insight CMU 8.2** enables efficient deployment and management of HPC clusters

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- **Storage and I/O flexibility:** optimize for performance or economy, to get the right compute for the right workload
  - Multiple riser options that give you the capability to have low latency high bandwidth workloads

# Workload Optimized Storage Server for Big Data Solutions



## HPE Apollo 4510 Gen10 System



HPE Apollo 4510 Gen10 System offers revolutionary storage density in a 4U form factor fitting in HPE Standard 1075mm Rack. The front drive drawers with side loaded design for 60 LFF HDDs is purpose built for Big Data solutions.

### Purpose-built for Big Data Solution Workloads

- **Dense storage and compute capabilities:** 60 LFF in front two driver drawers, side loaded and 2 SFF SAS/SATA/NVMe/SSD or 2 UFF Dual M.2 in 4U form factor
- **Improved computing power:** Supports Intel® Xeon® Processor Scalable Family with up to 26 cores and memory speeds up to 2666 MT/s providing computing power for Big Data applications

### Scale-Out System for Enterprise Customers

- **Scale-out friendly:** enterprise customers can scale out the data center capacity without deploying 1200 mm or deeper racks.
- **Standard server depth:** one of the highest storage capacities in any 4U server fitting in HPE Standard 1075mm Racks

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# Extreme compute performance in high density

## HPE Apollo 6000 Gen10 System



**Fast, secure and resilient compute, storage and fabric technologies built with rack level efficiencies to deliver exceptional price performance**

### Leading-edge Technology and performance

- Up to 323 TFLOPS per rack<sup>1</sup> with top-bin Intel® Xeon® Processor Scalable family (205 Watts, 28 cores, 2.5 GHz)
- 19% performance increase<sup>2</sup> with 205W over 165W compute trays

### Rack Scale Efficiency

- Improved rack level RASM features through integration
- Quickly deploy, service, and manage with cold aisle front accessible nodes

### Purpose built for HPC

- Optimize full network switch utilization with node to fabric alignment
- Automate task scheduling and management with Insight Cluster Management Utility

# Purpose built for large scale HPC deployments

## HPE Apollo 6000 Gen10 System

### Leading performance using latest technologies

- Up to 205W 28c 2.8GHz processor
- 100Gbs node to node connectivity
- Lower latency & higher IOPs<sup>1</sup> with NVMe storage
- Increased performance and future proofing<sup>2</sup> with persistent storage on memory bus

### Rack-scale efficiency Designed for scale-out

- Quickly deploy, service, and manage with cold aisle front accessible nodes
- Improved reliability with choice of Ethernet, Omni Path Architecture and EDR InfiniBand switches
- Enhanced Security with TPM, Secure Firmware updates, iLO5, Secure Encryption

### Purpose-built for HPC Optimized for TCO

- Reduce IT deployment, maintenance time and support costs<sup>3</sup> through minimized cabling
- Rapidly install & deploy using consolidated iLO port
- Minimize power consumption & reduce cooling costs<sup>4</sup> when nodes are not fully utilized using advanced thermal technology



# Designed to solve the world's most complex problems

HPE SGI 8600 System



**Leading performance, density, scale, and efficiency** coupled with robust system tools for quickest times to solutions

## Leading performance

- **Fastest distributed memory systems on the planet<sup>1</sup>** for message passing with performance validated on SPECmpiM\_2007 and SPECmpiL\_2007 both peak and base results.
- **Legacy of leading benchmark** and real world application performance<sup>2</sup>

## Ease of use

- **HPE SGI Management Suite:**
  - From provisioning of **thousands of nodes in minutes<sup>3</sup>**
  - Detailed system health monitoring to fine-grained power management
- **Quick time to solution** with off the shelf OS and applications

## Density, scale and efficiency

- **Scaling to >10,000 nodes without additional switches<sup>4</sup>** using integrated switches and hypercube technology
- **Substantial savings in cooling costs<sup>5</sup>** with closed-loop airflow" which ensures no air within the cell is mixed with datacenter air

# Addressing key requirements for large-scale distributed computing

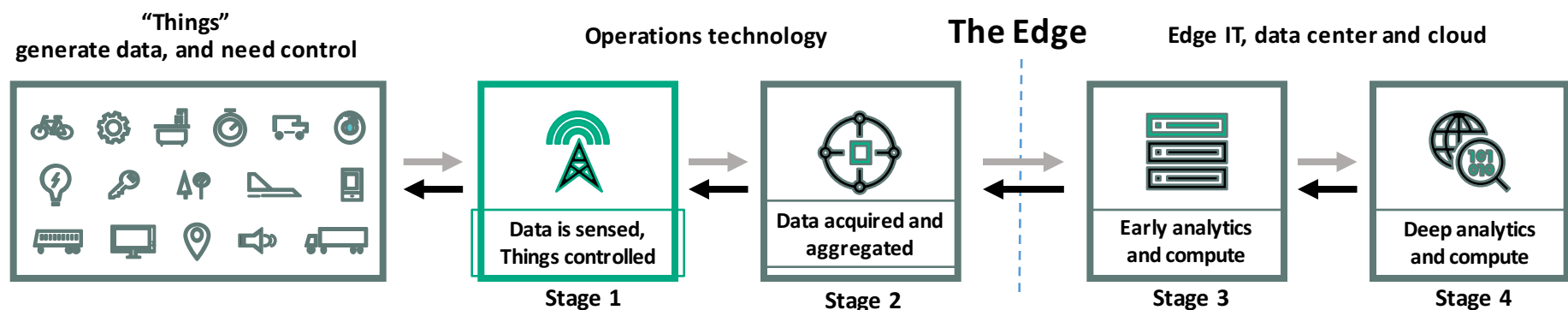
## HPE SGI 8600

Performance improvements using latest Intel processors	More Compute options Choice of 3 server trays	Efficient and dense design Compact E-Cell design
<ul style="list-style-type: none"><li>– <b>&gt;1/2 petaflops of pure x86 compute TFLOPS per rack</b> with <b>Intel® Xeon® Processor Scalable family</b><sup>1</sup></li><li>– <b>Fastest Distributed Memory Systems on the planet</b><sup>2</sup> for message passing with performance validated on SPECmpiM_2007 and SPECmpiL_2007 both peak and base results.</li></ul>	<ul style="list-style-type: none"><li>– <b>4 dual socket Intel® Xeon® Processor Scalable node tray</b> – <b>Up to 288 nodes / 512 CPUS per E-Cell</b></li><li>– <b>1 dual socket Intel® Xeon® Processor Scalable node</b> supports <b>up to 165W and up to 4 NVIDIA Tesla P100 with NVLink tray (SXM2)</b></li><li>– <b>4 single socket</b> with Intel® Xeon Phi™ node tray</li></ul>	<ul style="list-style-type: none"><li>– <b>Runs complex HPC workloads at petaflop speed</b> with Liquid cooled, tray-based, scalable, high-density clustered computer system</li><li>– <b>Designed to efficiently scale to thousands of nodes</b><sup>3</sup> through superior power and cooling efficiency coupled with advanced power management</li></ul>

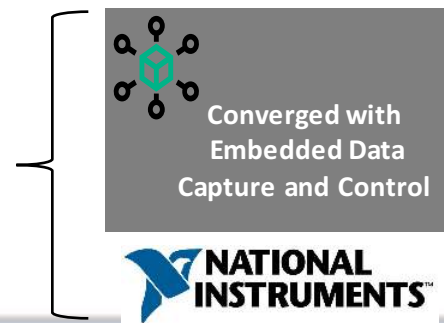
# Servidores HPE Edgeline

# Introducing a New Product Category: “Converged IoT Systems”

“Shifting left” proven enterprise class and data center capability to the IoT Edge

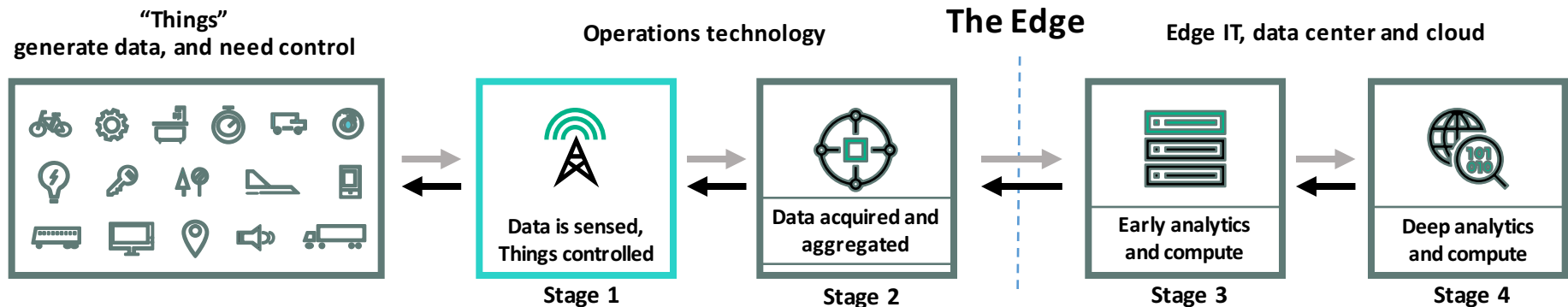


- Announced **June 2016**
- HPE products creates a **new product category**: “Converged IoT Systems”



- Proven deep x86 compute
- Enterprise class systems and device management
- Data center class analytics

# HPE Edgeline Family



- Announced **December 2015**
- HPE products enter an **existing product category**: “IoT Gateways”

## “IoT Gateways”

Edgeline EL20



Edgeline EL10



## “Converged IoT Systems”

Edgeline EL4000



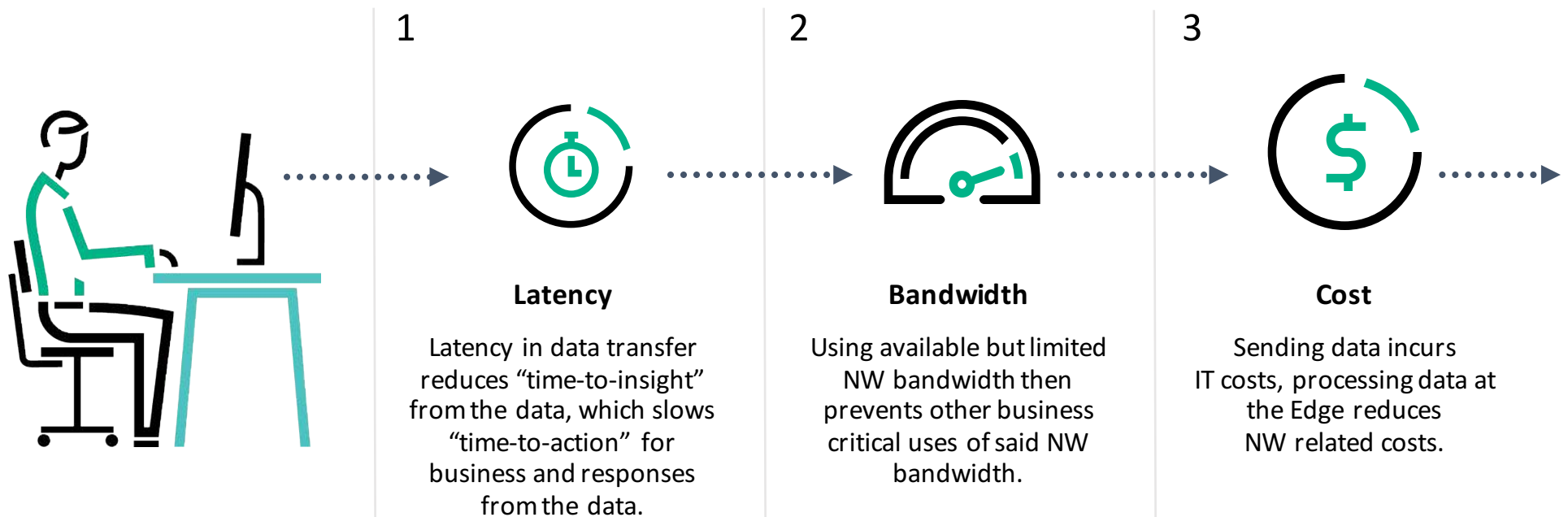
Edgeline EL1000



- Announced **June 2016**
- HPE products creates a **new product category**: “Converged IoT Systems”

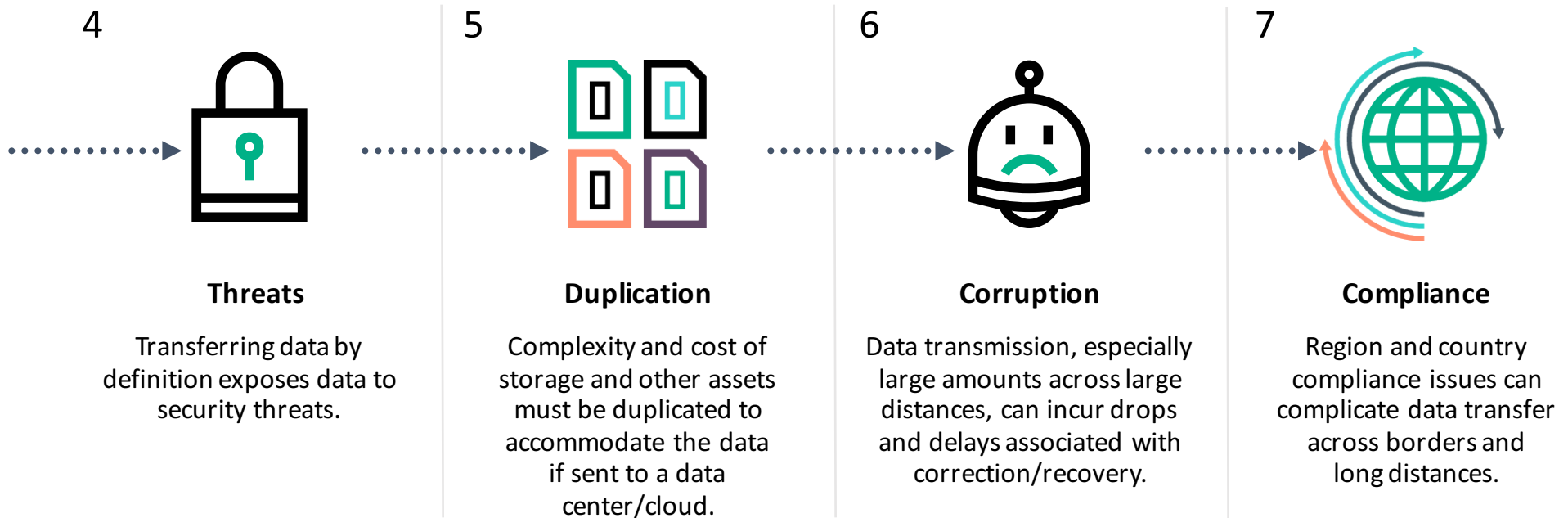
# Why “shift left” and compute at the edge?

The 7 benefits of computing at the Edge



# Why “shift left” and compute at the edge?

The 7 benefits of computing at the Edge



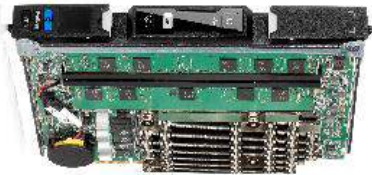
## Edgeline EL1000 and EL4000

- Unprecedented Edge Compute with Integrated Deep Data Ingest and Control
- Datacenter-Class Security and Management
- Engineered to fit into Harsh Edge Environments



EL4000		EL1000
Compute	4 of the Intel based m510 [64c] or m710x high density servers Up to 64 Intel Xeon cores	One of the Intel based m510 and m710x high density ProLiant servers Up to 16 Xeon cores
Dimensions	1U , 23" Deep, 17" wide, reversible rack mount with slide rails All power and I/O is connected on the same side	13.29" wide, 3.44" tall, 9.16" deep All power and I/O is connected on the same side
I/O	Support for 1 PCIe slot per cartridge in Chassis SKU 1 and 2 Support for up to 4 PXI cards in Chassis SKU 3	Supports up to two full-height, half-length PCIe cards or PXI cards Two SIM cards, two mini PCIe slots
Network	SKU 1: No switch, each cartridge drives 2x10GbE external SKU 2 and 3: Dual 10GbE switch, with two SFP+ connectors	1Gb Pass-through routing from the single-node cartridges 100/1Gb Switch for management network link
Storage	SATA connections internal to chassis, allow re-provisioning unused chassis space for Small Form-Factor drives	Accepts a single small-form-factor SATA hard drive Support for USB storage out the I/O panel
Cooling	N+1 redundant fans Air filter optional	Fan for cooling Air filter optional
Environmental NEBS cert	Operating temp 0-55 deg C, Storage temp -30 to 60 C 95% non-condensing Humidity	Operating temp 0-55 deg C 95% non-condensing Humidity – for outdoor environments.
Power	95-265 VAC input, 800 Watts; -48 VDC input, 800 Watts	95-265 VAC input, 280 Watts ; -48 VDC input, 280 Watts ; 12 VDC input, 280 Watts
Management	Chassis Controller for coordination of the iLO on the cartridges	Chassis Controller handles coordination for the iLO on the cartridge





### ProLiant Intel Xeon Server Blades

- Choice of compute
- Remotely managed via iLo
- Energy efficient
- Integrated GPU (m710x)

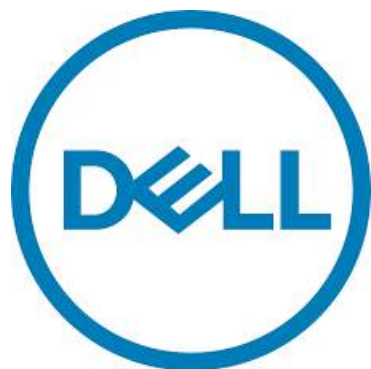


HPE ProLiant m510		HPE ProLiant m710x
SoC	Intel® Xeon® D “Broadwell-DE” 2.0GHz, 8 or 16 core 12MB of L3 Cache	Intel® Xeon® E5-1285L v5 (3.1-3.6 GHz/4-core) 8 MB shared L3 with 128 MB of eDRAM
Graphics	iLO Remote Console	Integrated Intel Iris Pro GT4e GPU with 72 execution unit iLO Remote Console is also enabled
Memory	(4) DDR4 SDRAM (2133/2400MHz) (8GB, 16GB, 32GB) Maximum Configuration 128GB (4x32GB)	(4) DDR4 SO-DIMMs (2133/2400MHz) (8GB, 16GB) Maximum Configuration 64GB (4x16GB)
NIC	Mellanox Connect-X3, Dual 10GbE NIC	Mellanox Connect-X3, Dual 10GbE NIC
Management	HPE iLO	HPE iLO
Onboard Storage	Three (3) m.2 Modules (1) - SATA m.2 (2242) – 32GB, 64GB or 120GB (2) – x4 NVMe m.2 (2280): up to 960GB	Five (5) m.2 Modules (1) - SATA m.2 (2242) – 32GB, 64GB, or 120G (4) – NVMe m.2 (2280): up to 960GB
OS	Ubuntu, RHEL, SLES, Windows Server, CentOS	Ubuntu, RHEL, SUSE, SLES, Windows Server, CentOS, XenServer
Workload	All Purpose Compute Workhorse for vRAN and other MEC applications, CDN, content caching, IoT and more!	Just in Time Transcoding (JITT), CDN, content caching, video surveillance, Big Data analytics, and more

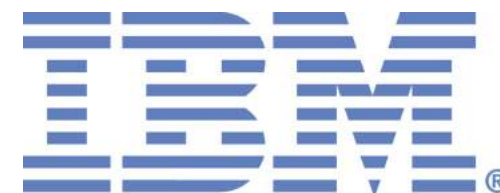
# Competencia

## Principales competidores

**ABSA** | Datacom



**Lenovo**



**ORACLE®**



**NUTANIX®**

Gracias