



ข้อกำหนด : 4.5.1	Product : Intel Xeon E5-2640 V4	Serial Number :																																																																																																																																																									
รายการที่ส่งมอบ :	Intel Xeon E5-2640 V4 (Processor Base Frequency : 2.4GHz, CPU Core : 10 Core, TPD : 90W, Support instructions 64 bit, Cache : 25 MB Smart Cache) x 2 Processor																																																																																																																																																										
เอกสารอ้างอิง :	ภาคผนวก ข หน้าที่ 5																																																																																																																																																										
การตรวจสอบ :	ผ่าน : <input type="checkbox"/> ไม่ผ่าน : <input type="checkbox"/>																																																																																																																																																										
<p>4.5.1 มีหน่วยประมวลผลกลาง (CPU) แบบ 8 แกนหลัก (8 core) หรือดีกว่า สำหรับคอมพิวเตอร์แม่ข่าย (Server) โดยเฉพาะและมีความเร็วสัญญาณนาฬิกาไม่น้อยกว่า 2.4 GHz จำนวนไม่น้อยกว่า 2 หน่วย</p>																																																																																																																																																											
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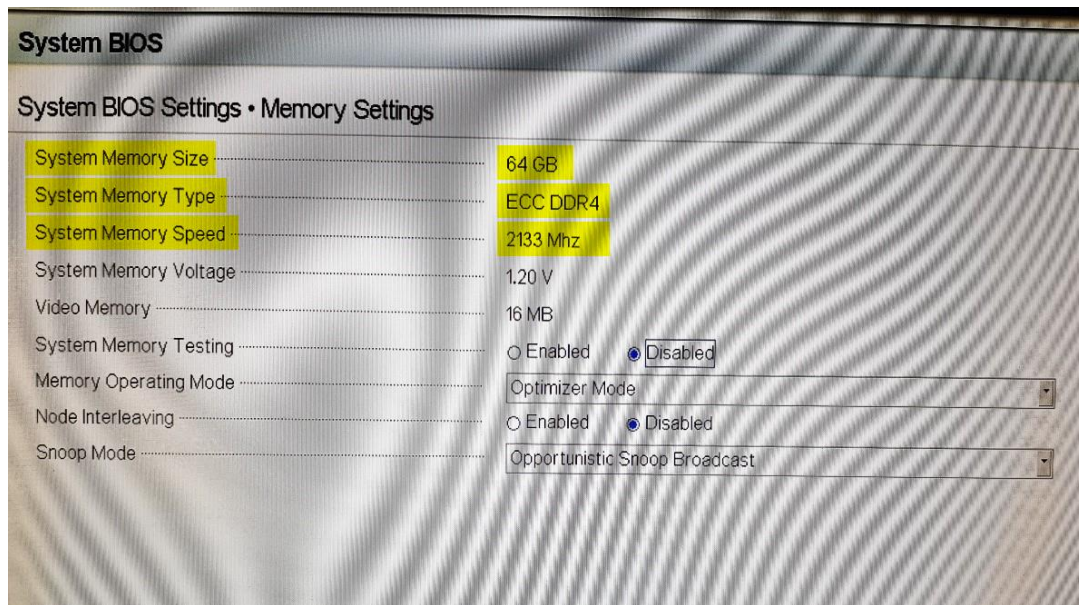


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ข้อกำหนด : 4.5.3	Product : Hynix	Serial Number : -
รายการที่ส่งมอบ :	Memory Size : 64 GB, Memory Type : ECC DDR4, Bus 2133 MHz	
เอกสารอ้างอิง :	-	
การตรวจสอบ :	ผ่าน : <input type="checkbox"/> ไม่ผ่าน : <input type="checkbox"/>	

4.5.3 มีหน่วยความจำหลัก (RAM) ชนิด ECC DDR3 หรือดีกว่า ขนาดไม่น้อยกว่า 32 GB



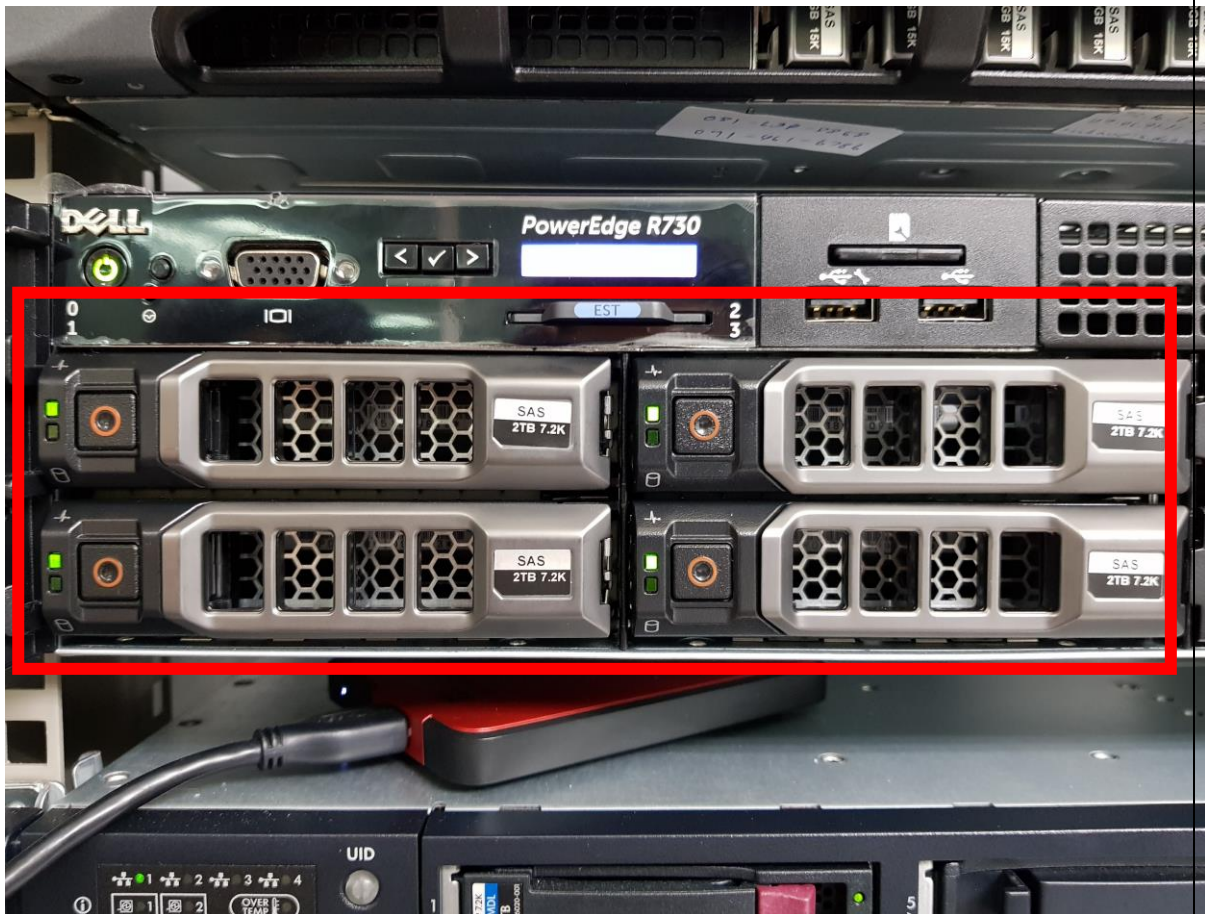
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ข้อกำหนด : 4.5.4	Product : Intel	Serial Number : -
รายการที่ส่งมอบ :	Controller : PERC H730 ,Support RAID level 0 ,1 ,5 ,6 ,RAID spans 10 ,50 ,60 ,SSD Support (ปัจจุบัน Server TPMS ตั้งค่าใช้ RAID 10 ซึ่งทำให้มีประสิทธิภาพในการอ่าน/เขียนข้อมูลได้รวดเร็วและมีการสำรองข้อมูลร่วมด้วย)	
เอกสารอ้างอิง :	ภาคผนวก ค หน้าที่ 2	
การตรวจสอบ :	ผ่าน : <input type="checkbox"/> ไม่ผ่าน : <input type="checkbox"/>	
4.5.4 สนับสนุนการทำงาน RAID ไม่น้อยกว่า RAID 0, 1, 5		
Feature	PERC H730P technical specification	
Solution provided	8-port internal SATA+SAS solution supporting 3Gb/s and 6Gb/s SATA, 3Gb/s, 6Gb/s and 12Gb/s SAS hard disk drives (HDDs) and solid-state drives (SSDs)	
Physical dimensions	167.6 mm (6.6 in) x 64.4 mm (2.5 in)	
Connectors	2 internal HD mini-SAS SFF8643	
Device support	Up to 255 (SAS, SATA)	
Host bus type	8-lane, PCI Express 3.0 compliant	
Data transfer rates	Up to 12Gb/s per port	
SAS controller	LSI SAS3108 1.2Ghz PowerPC 476 Dual Core 12Gb/s ROC	
Cache memory	2GB 1866MT/s DDR3 SDRAM	
Key RAID & data protection features	<ul style="list-style-type: none">• RAID levels 0, 1, 5, 6• RAID spans 10, 50, 60• Online Capacity Expansion (OCE)• Online RAID Level Migration (RLM)• Auto resume after power loss during array rebuild or reconstruction/RLM• Check Consistency for background data integrity• Physical disk power management (Dimmer-Switch™)• 4K native sector support• Workload profiles• Support for TRIM/UNMAP Commands for SAS/ SATA SSDs• T10-DIF Support• NVRAM "Wipe" feature — protects proprietary data when card is decommissioned• End Device Frame Buffering (EDFB) — bandwidth optimizer technology support for compatible expander-based enclosures• SED drive support• Load balancing• Fast initialization for quick array setup• Configurable stripe size up to 1MB• SSD support• Patrol read for media scanning and repairing• Up to 64 logical drive and 64TB LUN support• DDF compliant Configuration on Disk (COD)• S.M.A.R.T. support• Global and dedicated hot spare with revertible hot-spare support; automatic rebuild, enclosure affinity, emergency SATA• UEFI (HII)	
Remark :		


ข้อกำหนด : 4.5.5	Product : Toshiba	Serial Number : -
รายการที่ส่งมอบ :	Hard Disk Toshiba ชนิด SAS, ขนาดความจุ 2 TB จำนวน 4 หน่วย, ความเร็วรอบ 7,200 รอบต่อนาที, Cache 64 MB, Size 3.5 inch, Hot-plug Hard Drive	
เอกสารอ้างอิง :	-	
การตรวจสอบ :	ผ่าน : <input type="checkbox"/> ไม่ผ่าน : <input type="checkbox"/>	

4.5.5 มีหน่วยจัดเก็บข้อมูล (Hard Drive) ชนิด SCSI หรือ SAS หรือ SATA ที่มีความเร็วรอบไม่น้อยกว่า 7,200 รอบต่อนาที หรือ ชนิด Solid State Drives หรือดีกว่า และมีความจุไม่น้อยกว่า 450 GB จำนวนไม่น้อยกว่า 4 หน่วย



Remark :	
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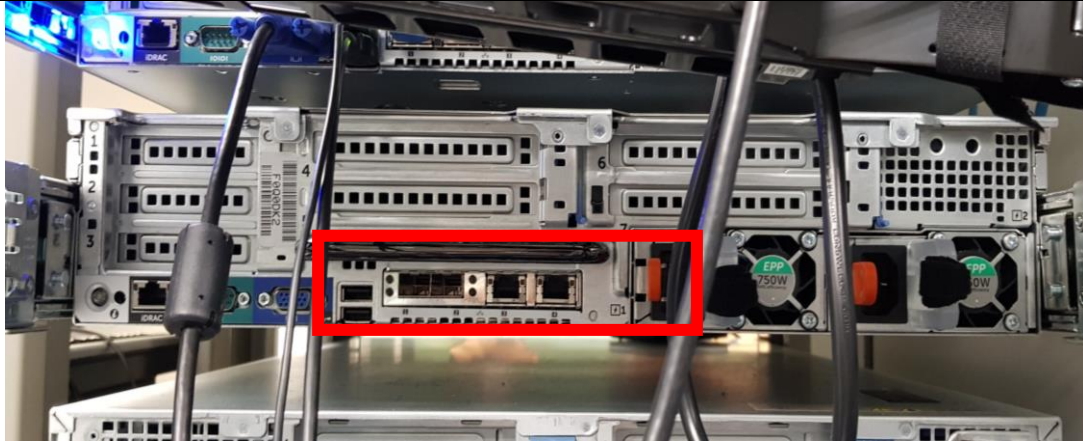
ข้อกำหนด : 4.5.6	Product : Dell	Serial Number : -
รายการที่ส่งมอบ :	DVD ROM,SATA, INTERNAL	
เอกสารอ้างอิง :	-	
การตรวจสอบ :	ผ่าน : <input type="checkbox"/> ไม่ผ่าน : <input type="checkbox"/>	
4.5.6 มี DVD-ROM หรือดีกว่า แบบติดตั้งภายใน หรือติดตั้งภายนอก จำนวน 1 หน่วย		
		
Remark :		



ข้อกำหนด : 4.5.7	Product : Intel	Serial Number : -
รายการที่ส่งมอบ :	Network support : SFP Port 1 Gb จำนวน 2 หน่วย, Lan Port 1 Gb จำนวน 2 หน่วย	
เอกสารอ้างอิง :	ภาคผนวก ก หน้าที่ 2	
การตรวจสอบ :	ผ่าน : <input type="checkbox"/> ไม่ผ่าน : <input type="checkbox"/>	

4.5.7 มีช่องเชื่อมต่อระบบเครือข่าย (Network Interface) แบบ 10/100/1000 Base-T หรือดีกว่า จำนวนไม่น้อยกว่า 2 ช่อง

Processor sockets	2
Dimensions	H: 8.73 cm (3.44 in.) x W: 44.40 cm (17.49 in.) x D: 68.40 cm (26.92 in.)
Cache	2.5MB per core; core options: 4, 6, 8, 10, 12, 14, 16, 18, 22
Chipset	Intel C610 series chipset
Memory ¹	Up to 1.5TB (24 DIMM slots): 4GB/8GB/16GB/32GB/64GB DDR4 up to 2400MT/s
I/O slots	Up to 7 x PCIe 3.0 plus dedicated PERC slot
RAID controllers	Internal controllers: PERC S130 (SW RAID), PERC H330, PERC H730, PERC H730P External HBAs (RAID): PERC H830 External HBAs (non-RAID): 12Gbps SAS HBA
Drive bays	Internal hard drive bay and hot-plug backplane: Up to 16 x 2.5" HDD: SAS, SATA, nearline SAS SSD: SAS, SATA Up to 8 x 3.5" HDD: SAS, SATA, nearline SAS SSD: SAS, SATA
Maximum internal storage ¹	HDD: SAS, SATA, nearline SAS SSD: SAS, SATA 16 x 2.5" – up to 29TB via 1.8TB hot-plug SAS hard drives 8 x 3.5" – up to 64TB via 8TB hot-plug NL SAS hard drives
Embedded NIC	4 x 1GbE, 2 x 10+2GbE, 4 x 10GbE NDC
Power supplies	Titanium efficiency 750W AC power supply; 1100W DC power supply; Platinum efficiency 495W, 750W, 1100W AC power supply;
Availability	ECC memory, hot-plug hard drives, hot-plug redundant cooling, hot-plug redundant power, internal dual SD module, single device data correction (SDDC), spare rank, tool-less chassis, support for high availability clustering and virtualization, proactive systems management alerts, iDRAC8 with Lifecycle Controller
Remote management	iDRAC8 with Lifecycle Controller, iDRAC8 Express (default), iDRAC8 Enterprise (upgrade) 8GB vFlash media (upgrade), 16GB vFlash media (upgrade)
Systems management	IPMI 2.0 compliant Dell OpenManage Essentials Dell OpenManage Mobile Dell OpenManage Power Center Dell OpenManage Integrations: <ul style="list-style-type: none">• Dell OpenManage Integration Suite for Microsoft® System Center• Dell OpenManage Integration for VMware® vCenter™ Dell OpenManage Connections: <ul style="list-style-type: none">• HP Operations Manager, IBM Tivoli® Netcool® and CA Network and Systems Management• Dell OpenManage Plug-in for Oracle® Database Manager
Rack support	ReadyRails™ II sliding rails for tool-less mounting in 4-post racks with square or unthreaded round holes or tooled mounting in 4-post threaded hole racks, with support for optional tool-less cable management arm.



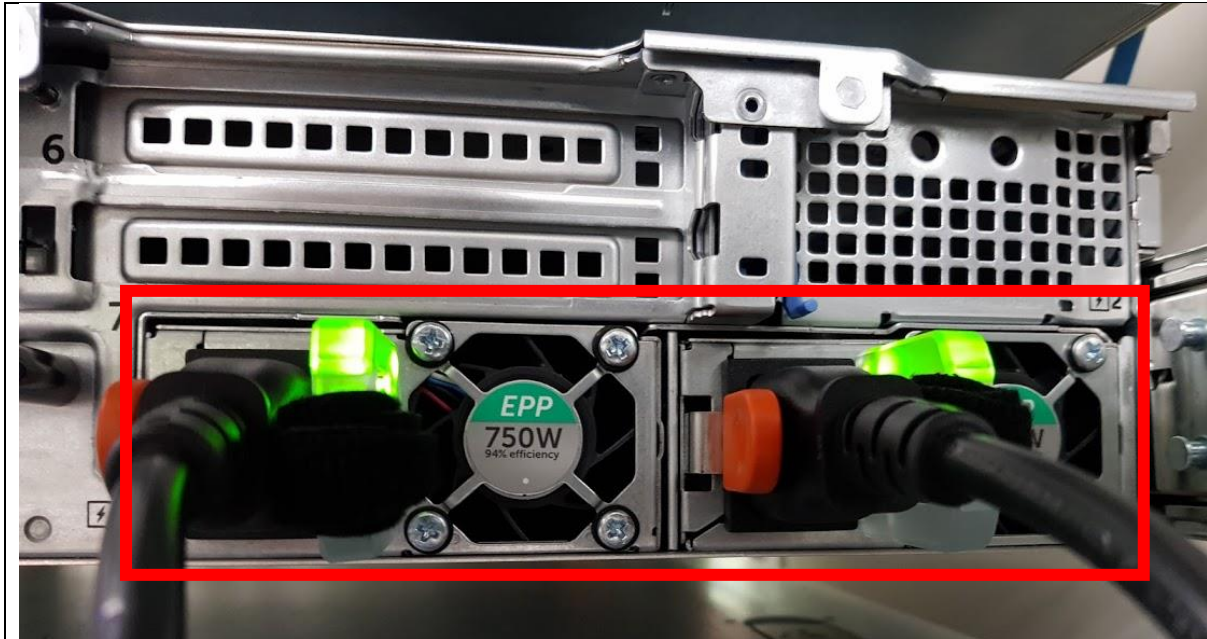
Remark :



ข้อกำหนด : 4.5.8	Product : Dell	Serial Number : -
รายการที่ส่งมอบ :	Power Supply : Titanium efficiency 750W AC power จำนวน 2 หน่วย, Redundant Power Supply, Support Hot Swap	
เอกสารอ้างอิง :	ภาคผนวก ก หน้าที่ 2	
การตรวจสอบ :	ผ่าน : <input type="checkbox"/> ไม่ผ่าน : <input type="checkbox"/>	

4.5.8 Power Supply แบบ Redundant Power Supply หรือ Hot Swap จำนวน 2 หน่วย

Dimensions	H: 8.73 cm (3.44 in.) x W: 44.40 cm (17.49 in.) x D: 68.40 cm (26.92 in.)	
Cache	2.5MB per core; core options: 4, 6, 8, 10, 12, 14, 16, 18, 22	
Chipset	Intel C610 series chipset	
Memory ¹	Up to 1.5TB (24 DIMM slots): 4GB/8GB/16GB/32GB/64GB DDR4 up to 2400MT/s	
I/O slots	Up to 7 x PCIe 3.0 plus dedicated PERC slot	
RAID controllers	Internal controllers: PERC S130 (SW RAID), PERC H330, PERC H730, PERC H730P External HBAs (RAID): PERC H830 External HBAs (non-RAID): 12Gbps SAS HBA	
Drive bays	Internal hard drive bay and hot-plug backplane: Up to 16 x 2.5" HDD: SAS, SATA, nearline SAS SSD: SAS, SATA Up to 8 x 3.5" HDD: SAS, SATA, nearline SAS SSD: SAS, SATA	
Maximum internal storage ¹	HDD: SAS, SATA, nearline SAS SSD: SAS, SATA 16 x 2.5" – up to 29TB via 1.8TB hot-plug SAS hard drives 8 x 3.5" – up to 64TB via 8TB hot-plug NL SAS hard drives	
Embedded NIC	4 x 1GbE, 2 x 10+2GbE, 4 x 10GbE NDC	
Power supplies	Titanium efficiency 750W AC power supply; 1100W DC power supply; Platinum efficiency 495W, 750W, 1100W AC power supply;	
Availability	ECC memory, hot-plug hard drives, hot-plug redundant cooling, hot-plug redundant power, internal dual SD module, single device data correction (SDDC), spare rank, tool-less chassis, support for high availability clustering and virtualization, proactive systems management alerts, iDRAC8 with Lifecycle Controller	
Remote management	iDRAC8 with Lifecycle Controller, iDRAC8 Express (default), iDRAC8 Enterprise (upgrade) 8GB vFlash media (upgrade), 16GB vFlash media (upgrade)	
Systems management	IPMI 2.0 compliant Dell OpenManage Essentials Dell OpenManage Mobile Dell OpenManage Power Center Dell OpenManage Integrations: <ul style="list-style-type: none">• Dell OpenManage Integration Suite for Microsoft® System Center• Dell OpenManage Integration for VMware® vCenter™	Dell OpenManage Connections: <ul style="list-style-type: none">• HP Operations Manager, IBM Tivoli® Netcool® and CA Network and Systems Management• Dell OpenManage Plug-in for Oracle® Database Manager
Rack support	ReadyRails™ II sliding rails for tool-less mounting in 4-post racks with square or unthreaded round holes or tool-less mounting in 4-post threaded hole racks, with support for optional tool-less cable management arm.	



Remark :	
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