

## Huawei CH242 V5 VS Servers of HPE, Lenovo, Dell and H3C

Server Model		Huawei CH242 V5 Server	HPE Synergy 660 Gen10 Server	Lenovo ThinkSystem SN850 Server (double-width type)	Dell PowerEdge FC830/M830 Server	Dell PowerEdge MX840c Server
Advantages of Dell Servers					Building blocks for future data centers	A new generation of converged architectures
Disadvantages of Dell Servers		You can insert 1 pci-e huawei self-developed SSD card				Slightly lower density, no support for IB
CPU	Model	Intel® Xeon® Scalable processors	2-4 Intel® Xeon® processors 8100/6100/5100/4100/3100 series	Intel Xeon Bronze, Silver, Gold, or Platinum processors	2-4 Intel® Xeon® E5-4600 v5 processors	2-4 Intel® Xeon® Scalable processors full series
	CPU model	8180 28Core 2.5Ghz	8164	Intel Xeon Platinum 8176M 28C	E5-4669/67/50/10 v4, 20 v3(M830 only)	Full range, no configuration restrictions. But for the upcoming Cascade Lake, only 14 have been opened in Gii
Chipset		Intel C622	Intel C621	Intel C624	Intel C611	Intel C628
RAM	Model	CH242 V5 supports single chip memory of 8GB, 16GB, 32GB, 64GB and 128GB	64GB/2666MHz/LRDIMM	48 DDR4 DIMM slots, up to 2666MT/s	64GB/2667MHz/LRDIMM	128GB/2667MHz/LRDIMM/NVDIMM-N/AEP
	Total Capacity	The motherboard has 48 DIMM (dual in-line memory module) slots that can be configured with up to 48 pieces of memory (12 per	6TB	RDIMMs supports up to 1.5B LRDIMMs supports up to 3TB. 3DS RDIMMs supports up to 6TB.	3TB	6TB

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		processor).The maximum capacity when the memory is full is 6TB				
Storage controller	Model	CH242 V5 supports LSI SAS3008 chip model and Avago SAS3508 chip model RAID control buckle. LSI SAS3008 supports RAID 0 and 1 RAID modes. Avago SAS3508 supports RAID 0, 1, 5, 6, 10, 50, and 60 RAID modes, and only supports RAID 0, 1, 5, 6, and 10 RAID modes configured on CH242 V5.	P408i, P416e	<b>6Gbps SATA Controller:</b> Onboard AHCI (non-RAID) / Intel RSTe (RAID)  <b>12Gbps RAID Controller:</b> ThinkSystem RAID 530-4i 2 Drive Adapter ThinkSystem RAID 930-4i-2GB 2 Drive Adapter	H730p	H745p
	Cache Size/Maximum	2GB	1GB	None、2GB	2GB	8GB
	Cache Protection Type			None(Onboard、RAID 530-4i)、Flash backup(930-4i)		
	Battery or Capacitance	Battery	Battery	Capacitance	Battery	Battery

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	Main technical characteristics	Support and RAID 0, 1 two RAID modes		<b>Controller Chips:</b> SAS3404(530-4i)、 SAS3504(930-4i) <b>RAID Support:</b> 530-4i(0\1\5\10)、 930-4i(0\1\5\6\10)		2 modes * PERC exclusive mode, H745p can put the server side of the local hard disk and MX5016s hard disk into a RAID group; * HBA Shared mode, perfectly matching SDS environment.HBA330
SD Card	Number of SD cards	N/A	1	N/A	2	2
	SD card capacity	N/A	8GB/32GB	N/A	64GB	64GB
	SD cards can form RAID levels	N/A	1	N/A	1	1
M.2	M.2 quantity	8	8 (4 internal)	1 or 2	0	2
	M. 2 single chip capacity	N/A	960GB	ThinkSystem M.2 CV1 32GB ThinkSystem M.2 CV3 128GB ThinkSystem M.2 5100 480GB	N/A	240GB
	M.2 RAID levels	RAID 0, 1, 5, 6, or 10	1	RAID0、RAID1	N/A	1
Network card	Sub-Card	2 10GE, 4 1GE interfaces,	HPE Synergy 3820C	embedded	2 10GE plus 2 1GE	2 25GE or 4 25GE interfaces

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	(NDC Card Type)	or 4 10GE interfaces	10/20Gb CNA, 6810C 25/50 Gb, Ethernet 2820C 10Gb CNA	Intel 4-port 10Gb controller Network adapters ThinkSystem Mellanox ConnectX-3 Mezz 40Gb 2-Port Ethernet Adapter Flex System CN4052S 2-port 10Gb Virtual Fabric Adapter Advanced (with FCoE / iSCSI) Flex System CN4052S 2-port 10Gb Virtual Fabric Adapter Flex System CN4054S 4-port 10Gb Virtual Fabric Adapter Advanced (with FCoE / iSCSI) Flex System CN4054S 4-port 10Gb Virtual Fabric Adapter ThinkSystem Mellanox ConnectX-3 Mezz FDR 2-Port InfiniBand Adapter	interfaces, or 4 10GE interfaces	
	PCIe (occupies a standard slot)	Yes	N/A	Yes	Yes	Yes
GPU	GPU Max Supported Blocks	0	1(mezz card)	N/A	0	0
	GPU model	N/A	N/A	N/A	N/A	N/A

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FPGA	FPGA Maximum Supported Blocks	0		N/A	0	0
	FPGA model	N/A		N/A	N/A	N/A
Hard drive backplane	Type (including the maximum number of supported hard disks)	4 2.5-inch HDDS and SSDS (including SAS SSD/SATA SSD)	4*2.5"	4 2.5-inch hot plug SAS/SATA/NVMe hard drives	4*2.5"	8*2.5"
	Whether to support hard disk hot swap	Yes	Yes	Yes	Yes	Yes
Hard disk configuration	Model and quantity	SAS SSD/SATA SSD hard drive	SAS/SATA/NVMe	2.5-inch 12Gbps SAS hard drive: 300GB 15K、600GB 15K、900GB 15K 300GB 10K、600GB 10K、900GB 10K、1.2TB 10K、1.8TB 10K、2.4TB 10K 2.5-inch 12Gbps NL-SAS hard drive: 1TB 7.2K、2TB 7.2 2.5-inch 6Gbps SATA hard	SAS/SATA/NVMe;4	SAS/SATA/NVMe;8

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				drive: 1TB 7.2K、2TB 7.2K 2.5-inch SSD hard drive: SAS interface: PM1633a 15.36TB、HUSMM32 400GB、 PM1635a 400GB、PM1635a 1.6TB SATA interface: 5100 240GB、5100 480GB、5100 960GB、5100 1.92TB、5100 3.84TB、Intel S4600 240GB、 Intel S4600 480GB、Intel S4600 960GB、Intel S4600 1.92TB、Intel S3520 240GB、 Intel S3520 480GB、Intel S3520 960GB		
Chassis	Dimensions (cm)	Dimensions (height x width x depth) 60.46mm x 423mm x 537.2mm	18.07x5.54x51.76cm	Height: 55 mm (2.2 in) Width: 435 mm (17.1 in) Depth: 493 mm (19.4 in)	50.8mm x 386.1 mm x 487.7 mm	85.5mm x 250.2mm x 610.39 mm
	Ventilation method	Air cooling	Air-cooled	Wind after wind	Air-cooled	Air-cooled
Temperature	Equipment operating temperature range (°C)	Operating temperature: 5°C ~ 40°C (41°F ~ 104°F)	10°C to 35°C	ASHRAE Class A3: 5°C - 40°C (41°F - 104°F); for altitudes above 900 m (2,953 ft), decrease the maximum ambient	10°C to 35°C	5°C to 40°C

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				temperature by 1 °C for every 175-m (574-ft) increase in altitude ASHRAE Class A2: 10 °C - 35 °C (50 °F - 95 °F); for altitudes above 900 m (2,953 ft), decrease the maximum ambient temperature by 1 °C for every 300-m (984-ft) increase in altitude		
	<b>Equipment working humidity range</b>	Working humidity: 5% RH ~ 85% RH (no condensation)	10% to 90%	ASHRAE Class A3: 8% - 85% (non-condensing); maximum dew point: 24 °C (75 °F) ASHRAE Class A2: 8% - 80% (non-condensing); maximum dew point: 21 °C (70 °F)	10% to 80%	10% to 80%
<b>Hot-swappable power supplies</b>	<b>Nominal power of single power supply (W)</b>	E9000 blade server chassis AC power module includes 2000W and 3000W 2 models: 2000W platinum AC power module model is EPW2000-12A;The 2000W titanium ac power module is PAC2000S12-TE;The 3000W platinum AC power module is	2400/2650w		Platinum 1600W, 2000W and 2400W	3000W

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		EPW3000-12A.				
	Quantity	6	6		M1000e: 6; FX2: 2	6
	Dual power mode	Redundancy	N + N redundancy		Redundancy	Redundancy
	Input method		200-240VAC/48VDC/380VDC		220VDC/48VDC/380HVDC/240HVDC	220VDC/48VDC/380HVDC/240HVDC
PCI-E (I/O)	Quantity	4 PCIe x16 mezz modules 1 standard PCIe x16 full-height 3/4 length card	6 x16 mezzanine	4 IO slots (PCI-E 3.0 X16) No support for the Flex System PCIe Expansion Node.	4 x 8 mezzanine; 8 (FX2s chassis)	6 x16 mezzanine
USB port	Quantity	2	1	Total 1 USB interface Front panel :1x USB 3.0	2	2
Out-of-band management	Yes or No	Yes	Yes	XClarity Controller (XCC) Advanced Optionally upgrade to Enterprise by Features on Demand (FoD) Mobile management function is supported (Xclarity Mobile App+ USB interface), and Mobile App supports Android or iOS	Yes	Yes
	The main function	MM910 is the management module of the E9000 chassis, which is	HPE iLO Standard with smart configuration (embedded), HPE OneView	Yes, Lenovo XClarity Energy Manager	IPMI 2.0 compliant iDRAC9 with life cycle controller (Express edition, Enterprise	IPMI 2.0 compliant iDRAC9 with life cycle controller (Express edition, Enterprise



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		used to manage all hardware devices in the chassis. One case is configured with two mm910s, which are run in master and standby mode and support primary and standby switching and hot plugging. Supported protocols include IPMI 2.0, SNMP v3, SNMP Trap v1, SNMP Trap v2c, SNMP Trap v3, SSL, SSH, SFTP, HTTPS, NTP, DNS, LDAP and SMTP.	Standard (download required) (Standard), HPE iLO Advanced, HPE iLO Advanced Premium Security Edition and HPE OneView Advanced (optional)		edition)	edition)
Energy management	Yes or No	Yes	Yes		Yes	Yes
System cooling fan		Air baffle	Yes	N/A, using Light path diagnostics	Air baffle	Air baffle
LCD display		On the blade chassis	Yes	N/A	Host frame without	Host frame without
Host front panel with keyhole and key		N/A	N/A	N/A	Yes	Yes
Other					OpenManage connections: Nagios Core and Nagios XI, Oracle Enterprise Manager, HPE Operations Manager i (OMi)	OpenManage Modular Edition; connections: Nagios Core and Nagios XI, Oracle Enterprise Manager, HPE Operations Manager i (OMi)

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