

Dell R740 Servers VS Servers of HPE, H3C, Lenovo, Huawei, Inspur and Sugon

Server model		Dell PowerEdge R740	Dell PowerEdge R740xd	HPE ProLiant DL380 G10	H3C UniServer R4900 G3	Lenovo ThinkSystem SR650
Dell Advantage Overview		1. Support NVDIMM / Quick Sync / 750W Titanium power supply / Micro-B iDrac / 25GbE NDC 2. Powerful management function, with life cycle management 3. Consistent security features of 14th generation server, Root Trust;	1. Support NVDIMM / Quick Sync / 750W Titanium power supply / Micro-B iDrac / 25GbE NDC 2. Powerful management function, with life cycle management 3. Consistent security features of 14th generation server, Root Trust;	R740 (xd) supports higher CPU, 8G Raid cache, supports up to 6 single-width GPUs, R740xd supports more hard drives	R740 (xd) supports NV DIMM / Quick Sync / 750W Titanium power supply / Micro-B iDrac / 25GbE NDC / larger capacity memory 8G Raid cache / 6 single wide GPU R740XD supports up to 32 hard drives	R740Xd supports more hard disks, supports 8GB cache RAID card, supports built-in redundant SD modules, supports NVDIMM R740Xd supports more GPUs; R740Xd supports more PCIE slots; supports Quick Sync wireless management
Dell Disadvantage Overview		NVMe is not supported	No 3.5" HDD + NVMe	Supports more 3.5" disks compared to R740	The R4900 supports up to 40 2.5" disks and supports 10 PCIe slots. The R740 does not support NVMe	/
CPU	Model	(2) Intel® Xeon® Scalable Processors (1st and 2nd Generation) Bronze, Silver, Gold, Platinum	(2) Intel® Xeon® Scalable Processors (1st and 2nd Generation) Bronze, Silver, Gold, Platinum	1-2 Intel Xeon processors 8100/6100/5100/4100/3100 series	(2) Intel® Xeon® Scalable Processor Family, 4/8/12/16/18/20/22/24/26/28 cores, maximum support power 205W	Intel Xeon Bronze, Silver, Gold, or Platinum processors
	CPU model	Platinum 8180M (205W)	Platinum 8180M (205W)	8080 / 8010M	Platinum 8180M	Intel Xeon Platinum 8180 28C

Server model		Dell PowerEdge R740	Dell PowerEdge R740xd	HPE ProLiant DL380 G10	H3C UniServer R4900 G3	Lenovo ThinkSystem SR650
Chipset		Intel C621	Intel C621	Intel C621	Intel C621	Intel C624
RAM	Model	24 128GB / 2667MHz / LRDIMMs starting April 2019 support 2933MHz RDIMMs	24 128GB / 2667MHz / LRDIMMs starting April 2019 support 2933MHz RDIMMs	24 128GB / 2667MHz / LRDIMM 32GB / 2667MHZ / RDIMM	24 DDR4 memory modules, supporting a maximum speed of 2666MT / s, supporting RDIMM or LRDIMM	24 DDR4 DIMM slots, up to 2666MT / s
	Total capacity	3TB	3TB	3.0TB	1.5TB	3TB
	Persistent memory	12 NVDIMMs, up to 192GB	12 NVDIMMs, up to 192GB	12 16GB NVDIMMs, up to 192GB	No	No
Storage controller	Model	6Gbps SATA controller: onboard SW RAID S140 12Gbps RAID controller: RAID Controller H730P, 12Gb / s SAS, 6Gb / s SATA, 2GB DDR3 NV SDRAM, PCIe, support SAS / SATA / SSD; RAID Controller H740P, 12Gb / s SAS, 6Gb / s SATA, 8GB DDR4-2133	6Gbps SATA controller: onboard SW RAID S140 12Gbps RAID controller: RAID Controller H730P, 12Gb / s SAS, 6Gb / s SATA, 2GB DDR3 NV SDRAM, PCIe, support SAS / SATA / SSD; RAID Controller H740P, 12Gb / s SAS, 6Gb / s SATA, 8GB DDR4-2133 NV DRAM, PCIe, support SAS	1 S100i 1 E208i-a / E208e-p 1 P408i-a / P408e-p 1 P816i-a	Standard 9-port onboard array controller RSTe, support SATA RAID 0/1/10/5 optional 8-port HBA card based on the dedicated slot of the array card, support SATA / SAS RAID 0/1/10 optional array-based card 8-port array card with proprietary slot, support	8/16 / 24-port 12Gbps array card option 12Gbps RAID controller: ThinkSystem RAID 530-8i PCIe 12Gb Adapter ThinkSystem RAID 730-8i 1GB Cache PCIe 12Gb Adapter ThinkSystem RAID 930-8i 2GB Flash PCIe 12Gb Adapter ThinkSystem RAID 930-16i

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		NV DRAM, PCIe, support SAS / SATA / SSD; RAID Controller H330, 12Gb / s SAS, 6Gb / s SATA, support SAS / SATA / SSD, no cache, PCIe internal controller : HBA330 12Gb / s SAS, 6Gb / s SATA, No Cache, No RAID, Pass through only external PERC (RAID): RAID Controller H840 RAID Controller H840, 2Gb / s SAS, 6Gb / s SATA, 8GB NV, PCIe, support SAS / SATA / SSD, 0/1/5/6/10/50/60 external HBA (non-RAID): 12 Gbps SAS HBA No Cache, No RAID, Pass through only	/ SATA / SSD; RAID Controller H330, 12Gb / s SAS, 6Gb / s SATA, support SAS / SATA / SSD, no cache, PCIe internal controller : HBA330 12Gb / s SAS, 6Gb / s SATA, No Cache, No RAID, Pass through only external PERC (RAID): RAID Controller H840 RAID Controller H840, 2Gb / s SAS, 6Gb / s SATA, 8GB NV, PCIe, support SAS / SATA / SSD, 0/1/5/6/10/50/60 external HBA (non-RAID): 12 Gbps SAS HBA No Cache, No RAID, Pass through only		RAID0 / 1/10/5/6/50/60 / 1E / Simple Volume Optional 8-port HBA and smart array card option based on standard PCI-E 3.0 slot	4GB Flash PCIe 12Gb Adapter ThinkSystem RAID 930-24i 4GB Flash PCIe 12Gb Adapter 12Gbps non-RAID HBA card: ThinkSystem 430-8i SAS / SATA 12Gb HBA ThinkSystem 430-16i SAS / SATA 12Gb HBA NVMe PCIe interfaces (non-RAID) Onboard NVMe interface (4-port) ThinkSystem 1610-4P NVMe Switch Adapter
	Cache size /	8GB	8GB	4GB	2G	None, 1GB, 2GB, 4GB

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	maximum					
	Cahce protection type	/	/	/	flash	None (530-8i, 730-8i), Flash backup (930-8i, 930-16i, 930-24i)
	Battery or capacitor	Battery	Battery	Battery	Capacitor	Capacitor
	Main technical characteristics	Controller chip: H730P (LSISAS 3108), H740P (LSISAS 3508), H330 (LSI SAS3008) RAID support: H730P (0/1/5/6/10/50/60), H740P (0/1/5/6 / 10/50/60), H330 (0/1/5/10/50), S140 (0/1/5/10)	Controller chip: H730P (LSISAS 3108), H740P (LSISAS 3508), H330 (LSI SAS3008) RAID support: H730P (0/1/5/6/10/50/60), H740P (0/1/5/6 / 10/50/60), H330 (0/1/5/10/50), S140 (0/1/5/10)	12Gb SAS, up to 240	Supports up to 2GB DDR3-1, 866 MHz, 72-bit wide bus, 14.9 GB / s IO performance	Controller chip: SAS3408 (530-8i), SAS3108 (730-8i), SAS3508 (930-8i, 930-24i), SAS3516 (930-16i), SAS3408 (430-8i), SAS3416 (430-16i) the RAID Support: 530-8i (0 \ 1 \ 10 \ 5 \ 50), 730-8i (0 \ 1 \ 10 \ 5 \ 50), 930-8i (0 \ 1 \ 10 \ 5 \ 50 \ 6 \ 60) , 930-16i (0 \ 1 \ 10 \ 5 \ 50 \ 6 \ 60), 930-24i (0 \ 1 \ 10 \ 5 \ 50 \ 6 \ 60)
SD card	Number of SD cards	2	2	1 (optional 2)	2	Does not support SD
	SD card capacity	64GB	64GB	8GB dual MicroSD card kit or 32GB single MicroSD card kit	32GB Dual MicroSD Card Kit	N/A
	SD cards can form RAID levels	1	1	N/A	N/A	N/A
M.2	M.2 quantity	2	2	2	2	1 or 2

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	M. 2 single chip capacity	240GB	240GB	1.92TB	256G	ThinkSystem M.2 CV1 32GB ThinkSystem M.2 CV3 128GB
	M.2 RAID levels	1	1	RAID 1	N/A	RAID0, RAID1
Network card	Daughter card (NDC card type)	Four 1GE interfaces, or two 10GE plus two 1GE interfaces, or four 10GE interfaces, or two 25GE interfaces	Four 1GE interfaces, or two 10GE plus two 1GE interfaces, or four 10GE interfaces, or two 25GE interfaces	Default 4x1Gb (FlexibleLOM) optional 2x10Gb / 4x10Gb / 2x25Gb	One onboard 1Gbps HDM management network port supports expansion of 4xGE electrical ports, 2x10GE electrical ports, and 2x10GE optical ports through mLOM, mLOM supports NCSI function, and supports standard PCI-E 3.0 network adapter options	No onboard, 1 LOM slot, LOM cards (Intel X722, not compatible with 10 / 100MB speed) ThinkSystem 1Gb 2-port RJ45 LOM ThinkSystem 1Gb 4-port RJ45 LOM ThinkSystem 10Gb 2-port Base-T LOM ThinkSystem 10Gb 2- port SFP + LOM ThinkSystem 10Gb 4-port Base-T LOM ThinkSystem 10Gb 4-port SFP + LOM
	PCIe (occupies a standard slot)	Yes	Yes	No (embedded, not occupying slots)	Yes	Yes
GPU	GPU Max Supported Blocks	3 full-width 300W or 6 single-width 150W	3 full-width 300W or 6 single-width 150W	3 full widths or 5 single widths	Up to 3 double-wide GPUs	Up to 2 double widths
	GPU model	Nvidia Tesla V100 /	Nvidia Tesla V100 / P100,	Nvidia Tesla P4 / P40 /	M4000, K80, M60, M4	NVIDIA Tesla M60 GPU,

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		P100, K80, K40, Grid M60, M10, P4, Quadro P4000.	K80, K40, Grid M60, M10, P4, Quadro P4000.	P100 / V100 / M60 Quadro P2000 / P4000 / P6000 AMD Radeon Instinct MI25		PCIe (Passive) NVIDIA Tesla P100 16GB PCIe Passive GPU
FPGA	FPGA Maximum Supported Blocks	N/A	N/A	/	N/A	N/A
	FPGA model	POST RTS	POST RTS	/	N/A	N/A
Hard drive backplane	Type (including the maximum number of supported hard disks)	Supports up to 16 x 2.5" hard drives a. 16 x 2.5" SAS / SATA b. 8 x 2.5" SAS / SATA supports up to 8 x 3.5" hard drives a. 8 x 2.5" SAS / SATA does not support rear or internal hard drives	Supports up to 32 x 2.5" hard drives a. 24x2.5" front + 4x2.5" internal (3.5" bay) + 4x2.5" rear b. 24x2.5" front + 4x2.5" rear b 24x2.5" front c. 24x2.5", including 12xNVMe support up to 18x 3.5" hard drive a. 12x3.5" front + 4x3.5" built-in + 2x3.5" rear hard drive b. 12x3.5" Front + 4x3.5" built-in + 4x2.5"	Up to 24 + 6x2.5", up to 12 + 4 + 3x3.5" and 2x2.5" ; up to 20 front NVMe	Supports SAS / SATA HDD / SSD hard disks; up to 12x3.5" on the front, 4x3.5" on the inside, and 4x3.5" on the rear plus 4x2.5" on the front, up to 25x2.5" on the front, and 8x2 on the inside. 5 ", rear expansion 3x3.5" plus 4x2.5" * supports front / built-in NVMe hard drives, supports up to 24 front NVMe hard drives, supports 256GB SATA M.2 option	16 2.5-inch SAS / SATA hot-swap hard drives a. 8 2.5" SAS / SATA + 8 2.5" SAS / SATA b. 4 2.5" SAS / SATA & 4 2.5" AnyBay + 8 2.5" SAS / SATA c. 4 x 2.5" SAS / SATA & 4 x 2.5" AnyBay + 4 x 2.5" SAS / SATA & 4 x 2.5" AnyBay 24 x 2.5" SAS / SATA hot-swap hard drives a. 8 x 2.5" SAS / SATA + 8 2.5" SAS / SATA + 8 2.5" SAS / SATA / SATA b. 4 2.5" SAS / SATA & 4 2.5" AnyBay + 8 2.5" SAS / SATA + 8 2.5" SAS / SATA 8 3.5 inch SAS / SATA hard

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			rear hard drive b. 12 front supports up to 24x 2.5" NVMe disks			disk hot plug 14 3.5 inches SAS / SATA hot plug hard a. 12 th 3.5" SAS / SATA (front) + 2 3.5" SAS / SATA (REAR) B.. 8 th 3.5" SAS / SATA & 4x 3.5" AnyBay (front) + 2 3.5" SAS / SATA (rear)
	Whether to support hard disk hot swap	Yes	Yes	Yes	Yes	Yes
Hard disk configuration	Model and quantity	SAS / SATA / SSD; 16 * 2.5" / 8 * 3.5 "	SAS / SATA / SSD / NVMe; 32 * 2.5" / 18 * 3.5 " / 24 * NVMe	SATA / SAS HDD / SSD	Up to 31 hard drives, supporting SAS / SATA HDD / SSD hard drives; up to 12x3.5" in the front, 4x3.5" in the internal extension, 4x3.5" in the rear and 4x2.5" in the front, up to 25x2.5" in the front , Internal expansion 8x2.5" , rear expansion 3x3.5" plus 4x2.5" * support front / built-in NVMe hard drive, support up to 24 front NVMe hard drives support 256GB SATA M.2	2.5 inch 12Gbps SAS hard drive: 3.5 inch 12Gbps SAS hard drive: 2.5 inch 12Gbps NL-SAS hard drive: 3.5 inch 12Gbps NL-SAS hard drive: 3.5 inch 6Gbps SATA hard drive: 2.5 inch 6Gbps SATA hard drive: 2.5 inch SSD hard drive: NVMe PCIe interface: U .2 PX04PMB 800GB, U.2 PX04PMB 1.6TB, U.2

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					option	PX04PMB 960GB, U.2 PX04PMB 1.92TB, U.2 PM963 1.92TB, U.2 PM963 3.84TB
Case	Dimensions (cm)	86.5mm (height) * 482mm (width) * 751.34mm (depth) (including safety panel) 28.6kg	86.5mm (height) * 482mm (width) * 751.34mm (depth) (including safety panel); 33.1kg	x2.5": 8.73 x 44.55 x 67.94 cm x3.5": 8.73 x 44.55 x 73.02 cm	87.5mm (height) x 445.5mm (width) x 748mm (depth) (without security panel) 87.5mm (height) x 445.5mm (width) x 769mm (depth) (without security panel)	2U height Height: 87 mm (3.4 in) Width: 445 mm (17.5 in) Depth: 720 mm (28.3 in)
	Ventilation method	Air-cooled	Air-cooled	Forward wind	Forward wind	Front and rear ventilation
Temperature	Equipment operating temperature range (Celsius)	10 ° C to 35 ° C	10 ° C to 35 ° C	ASHARE A4 5-45 ° C	5-50 ° C (conditional support)	ASHRAE Class A4: 5 ° C-45 ° C (41 ° F-113 ° F); for altitudes above 900 m (2,953 ft), decrease the maximum ambient temperature by 1 ° C for every 125-m (410-ft) increase in altitude ASHRAE Class A3: 5 ° C-40 ° C (41 ° F-104 ° F); for altitudes above 900 m (2,953 ft), decrease the maximum ambient temperature by 1 ° C for

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						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
	Equipment working humidity range	10% to 80%	10% to 80%	8%-90%	N/A	ASHRAE Class A4: 8%-90% (non-condensing); maximum dew point: 24 ° C (75 ° F) 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)
Hot-swappable power supplies	Nominal power of single power supply (W)	Titanium 750W, Platinum 495W, 750W, 1100W, 1600W and 2000W 240V HVDC 750W 336V HVDC 1100W	Titanium 750W, Platinum 495W, 750W, 1100W, 1600W and 2000W 240V HVDC 750W 336V HVDC 1100W	HPE universal slot redundant power module 550W / 800W / 1600W, up to 96% energy efficiency conversion rate	Optional up to two 550W / 800W / 1200W efficient redundant power supplies, 80Plus certification, up to 96% energy efficiency conversion rate (supported in the first half of 2018)	550W / 750W / 1100W / 1600W, optional Platinum, Titanium power supply ThinkSystem 550W (230V / 115V) Platinum Hot-Swap Power Supply ThinkSystem 750W (230 /

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		-48V DC 1100W	-48V DC 1100W		Supports up to 6 N + 1 redundant hot-swappable fans	115V) Platinum Hot-Swap Power Supply ThinkSystem 750W (230V) Titanium Hot-Swap Power Supply ThinkSystem 1100W (230V / 115V) Platinum Hot-Swap Power Supply ThinkSystem 1600W (230V) Platinum Hot-Swap Power Supply
	Quantity	2	2	1-2	2	2
	Dual power mode	Redundancy	Redundancy	Redundancy	Redundancy	N + N
	Input method	220V AC / 48VDC / 380HVDC / 240HVDC	220V AC / 48VDC / 380HVDC / 240HVDC	240VAC / 48VDC / 380VDC		Up to two redundant hot-swap 550 W, 750 W, or 1100 W (100-240 V), or 1600 W (200-240 V) High Efficiency Platinum AC power supplies, or 750 W (200-240 V) High Efficiency Titanium AC power supplies.

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PCI-E (I/O)	Quantity	Up to 8 Gen3 slots (4 x 16)	Up to 8 Gen3 slots (4 x 16)	Up to 8 standard PCI-E 3.0 slots, 1 array card proprietary slot, 1 FlexLOM network card slot	Up to 10 available PCIe 3.0 slots (8 standard slots, 1 array card dedicated slot, 1 mLOM network card dedicated slot)	Supports up to 7 PCIe 3.0 slots (including 1 dedicated RAID adapter PCIe) LOM card slot Slot 1: PCIe 3.0 x16 or PCIe 3.0 x8; full-height, half-length (PCIe x16 slot is double-wide) Slot 2 : PCIe 3.0 x8; full-height, half-length (not present if the slot 1 is PCIe x16 or slot 3 is ML2 x16) Slot 3: PCIe 3.0 x8, or ML2 x8, or ML2 x16; full-height, half-length Slot 4: PCIe 3.0 x8; low profile (vertical slot on system planar) Slot 5: PCIe 3.0 x16; full-height, half-length Slot 6: PCIe 3.0 x16; full-height, half-length Slot 7: PCIe 3.0 x8 (dedicated to an internal storage controller)
USB port	Quantity	5	5	Standard 5 USB 3.0 (front 1, rear 1, internal 2), 2	Up to 6 USB 3.0 (1 standard on the front, optional 1,	Total 4 USB ports

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				additional USB ports can be added through Universal Media Bay (standard in 8x3.5" case)	rear 2, internal 2);	Front panel: 1x USB 2.0 port with XClarity Controller access, 1x USB 3.0 port Rear panel: 2x USB 3.0 ports
Out-of-band management	Yes or No	Yes	Yes	Yes	Yes	Yes
	The main function	IPMI 2.0 Compliant iDRAC9 (Express Edition, Enterprise Edition) with Lifecycle Controller Optional Quick Sync 2 Wireless Module	IPMI 2.0 Compliant iDRAC9 (Express Edition, Enterprise Edition) with Lifecycle Controller Optional Quick Sync 2 Wireless Module	HPE iLO Standard with Smart Configuration (embedded), HPE OneView Standard (download required) (standard), HPE iLO Advanced, HPE iLO Advanced Premium Security Edition, and HPE OneView Advanced (optional)	HDM agentless management tool (with independent management port) and H3C FIST management software	XClarity Controller (XCC) Standard, Advanced, and Enterprise include Standard version features by default. You can choose to upgrade to Advanced or Enterprise through Features on Demand (FoD). Support mobile management functions (Xclarity Mobile App + front USB interface connection). Mobile App supports Android or iOS
Energy management	Yes or No	Yes	Yes	Yes	Yes	Yes, Lenovo XClarity Energy Manager
System cooling fan		Air baffle, vector heat dissipation	Air baffle, vector heat dissipation	6 hot-swappable fans	Supports up to 6 N + 1 redundant hot-swappable fans	6 hot-swappable fans, support N + 1 redundancy, 5 with 1 CPU, 6 with 2 CPUs
LCD display		Optional	Optional	Systems Insight Display	No	N/A, using Light path diagnostics
Host front panel with keyhole		Yes	Yes	Yes	Yes	Support, optional lock

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and key					panel (ThinkSystem 1U Security Bezel)
Other	Cryptographically signed firmware; Hardware Root of Trust; Secure Boot; System Lockdown; System Erase; OpenManage connections: Nagios & Nagios XI, Oracle Enterprise Manager, HP Operations Manager, IBM Tivoli Netcool / OMNIBus, IBM Tivoli® Network Manager, CA Network and Systems Management	Cryptographically signed firmware; Hardware Root of Trust; Secure Boot; System Lockdown; System Erase; OpenManage connections: Nagios & Nagios XI, Oracle Enterprise Manager, HP Operations Manager, IBM Tivoli Netcool / OMNIBus, IBM Tivoli® Network Manager, CA Network and Systems Management	UEFI securely launches trusted silicon root technology FIPS 140-2 Common Criteria Certification Configurable for PCI DSS Compliance browser supports AES and 3DES encryption CNSA tamper-resistant upgrade firmware secure recovery firmware rollback technology secure erase technology TPM 1.2 / 2.0 security panel can Select Chassis Intrusion Detection	UEFI Secure Boot Management Module HDM supports network firewall function (customized access restrictions by IP address, port number, time period, MAC address) TPM 2.0 TCM 1.0 lockable security panel chassis intrusion detection	Boot password and administrator password TPM 1.2, 2.0 (set by UEFI) TCM optional lockable security panel

Server model	Dell PowerEdge R740	Dell PowerEdge R740xd	Huawei RH2288H v5	Inspur NF5280 M5	Inspur SA5212M5	Sugon Tiankuo I620-G30
Dell Advantage Overview	1. Support NVDIMM / Quick Sync / 750W Titanium power supply	1. Support NVDIMM / Quick Sync / 750W Titanium power supply	Security features; more choices on SDS boot media; network	Security features; support for more GPU cards; more	Support high TDP CPU (higher than 165W); Inspur does	NVDIMM, more hard drive support, support

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		/ Micro-B iDrac / 25GbE NDC 2. Powerful management function, with life cycle management 3. Consistent security features of 14th generation server, Root Trust;	/ Micro-B iDrac / 25GbE NDC 2. Powerful management function, with life cycle management 3. Consistent security features of 14th generation server, Root Trust;	daughter card supports 25Gb; H740P can be configured with up to 8GB cache capacity; DELL supports dual SD cards; Quick Sync 2 intelligent management panel; supports NVDIMM, supports more GPU; supports more power options	choices in SDS boot media; network daughter card supports 25Gb; (Inspur NF5280M5 supports 1 OCP network card and 4 GPU cards)	not support Omni Path, does not support CPU + FPGA, does not support QAT, does not support IDS DM	24x NVMe
Dell disadvantage Overview		NVMe is not supported	No 3.5" HDD + NVMe	RAID card does not support super capacitors	/	8 PCIe slots (9 Inspur)	No 25GbE NDC / LOM
CPU	Model	(2) Intel® Xeon® Scalable Processors (1st and 2nd Generation) Bronze, Silver, Gold, Platinum	(2) Intel® Xeon® Scalable Processors (1st and 2nd Generation) Bronze, Silver, Gold, Platinum	Supports 1 to 2 Intel® Xeon® 3100, 4100, 5100, 6100, 8100 series scalable processors	Intel Skylake 3/4/5/6/8	Intel® Xeon® processor purley series with a maximum TDP of 165W	Intel® Xeon® Scalable Processor
	High-level	Platinum 8180M	Platinum 8180M	8180 (28c / 2.5GHz)	NA	/	N/A

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	CPU model	(205W)	(205W)				
Chipset		Intel C621	Intel C621	Lewisburg LBG-2 (Intel C622)	NA	/	/
RAM	Model	24 128GB / 2667MHz / LRDIMMs starting April 2019 support 2933MHz RDIMMs	24 128GB / 2667MHz / LRDIMMs starting April 2019 support 2933MHz RDIMMs	24 DDR4 DIMM slots, up to 2666MT / s.	24 memory slots, supporting up to DDR4-2666 memory	24 DIMM DDR4, support RDIMM / LRDIMM, maximum memory working frequency 2666MHz	24 memory slots, up to 3T
	Total capacity	3TB	3TB	RDIMM supports up to 1.5TB, LRDIMM supports up to 3TB	Single 128G support up to 3TB	/	RDIMM LRDIMM NVDIMM NVDIMM-N
	Persistent memory	12 NVDIMMs, up to 192GB	12 NVDIMMs, up to 192GB	No	/	Which supports 12 AEP memory modules (requires Cascade CPU)	Stand by
Storage controller	Model	6Gbps SATA controller: onbord SW RAID S140 12Gbps RAID controller: RAID Controller H730P, 12Gb / s SAS, 6Gb / s SATA, 2GB DDR3 NV SDRAM, PCIe, support	6Gbps SATA controller: onbord SW RAID S140 12Gbps RAID controller: RAID Controller H730P, 12Gb / s SAS, 6Gb / s SATA, 2GB DDR3 NV SDRAM, PCIe, support	Supports 8-port 12Gbps pass-through cards and array cards: SR130-M (LSI SAS3008) does not support RAID,	NA	/	Integrated 12-port SATA hard disk controller; can be flexibly configured with SAS cards, support RAID0 / 1/10

Server model		Dell PowerEdge R740	Dell PowerEdge R740xd	Huawei RH2288H v5	Inspur NF5280 M5	Inspur SA5212M5	Sugon Tiankuo I620-G30
		<p>SAS / SATA / SSD; RAID Controller H740P, 12Gb / s SAS , 6Gb / s SATA, 8GB DDR4-2133 NV DRAM, PCIe, support SAS / SATA / SSD; RAID Controller H330, 12Gb / s SAS, 6Gb / s SATA, support SAS / SATA / SSD, no cache, PCIe internal controller : HBA330 12Gb / s SAS, 6Gb / s SATA, No Cache, No RAID, Pass through only external PERC (RAID): RAID Controller H840 RAID Controller H840, 2Gb / s SAS, 6Gb / s SATA, 8GB NV, PCIe, support SAS / SATA / SSD, 0/1/5/6/10/50/60 external HBA (non- RAID): 12 Gbps SAS HBA No Cache, No RAID,</p>	<p>SAS / SATA / SSD; RAID Controller H740P, 12Gb / s SAS , 6Gb / s SATA, 8GB DDR4-2133 NV DRAM, PCIe, support SAS / SATA / SSD; RAID Controller H330, 12Gb / s SAS, 6Gb / s SATA, support SAS / SATA / SSD, no cache, PCIe internal controller : HBA330 12Gb / s SAS, 6Gb / s SATA, No Cache, No RAID, Pass through only external PERC (RAID): RAID Controller H840 RAID Controller H840, 2Gb / s SAS, 6Gb / s SATA, 8GB NV, PCIe, support SAS / SATA / SSD, 0/1/5/6/10/50/60 external HBA (non- RAID): 12 Gbps SAS HBA No Cache, No RAID,</p>	<p>supports IT work mode, and supports iBMC out-of-band management. SR430C-M (LSI SAS3108) can support RAID 0/1/10/5/50/6/60, support super capacitor protection, and support iBMC out-of-band management.</p>			<p>SAS RAID cards, support RAID 0/1/5/6/50/60, support cache super capacitor protection, provide RAID state migration, RAID configuration Memory and other functions</p>

Server model		Dell PowerEdge R740	Dell PowerEdge R740xd	Huawei RH2288H v5	Inspur NF5280 M5	Inspur SA5212M5	Sugon Tiankuo I620-G30
		Pass through only	Pass through only				
	Cache size / maximum	8GB	8GB	0 / 4GB	NA	/	N/A
	Cache protection type	/	/	capacitance	NA	/	/
	Battery or capacitor	Battery	Battery	Capacitor	NA	/	Capacitor
	Main technical characteristics	Controller chip: H730P (LSISAS 3108), H740P (LSISAS 3508), H330 (LSI SAS3008) RAID support: H730P (0/1/5/6/10/50/60), H740P (0/1/5/6 / 10/50/60), H330 (0/1/5/10/50), S140 (0/1/5/10)	Controller chip: H730P (LSISAS 3108), H740P (LSISAS 3508), H330 (LSI SAS3008) RAID support: H730P (0/1/5/6/10/50/60), H740P (0/1/5/6 / 10/50/60), H330 (0/1/5/10/50), S140 (0/1/5/10)	Support RAID 0/1/00/5/6/10/50/60, hard disk hot backup, read and write cache, data power-down protection, CacheCade, disk inspection, automatic SMART scan, hard disk energy saving, hard disk roaming, etc.	Configurable storage controller with cache, support for power failure protection module	/	/
SD card	Number of SD cards	2	2	Does not support SD cards	NA	/	2
	SD card capacity	64GB	64GB	N/A	NA	/	/
	SD cards can form RAID levels	1	1	N/A	NA	/	/
M.2	M.2 quantity	2	2	2	2	2 SATA M.2 SSDs	2

Server model		Dell PowerEdge R740	Dell PowerEdge R740xd	Huawei RH2288H v5	Inspur NF5280 M5	Inspur SA5212M5	Sugon Tiankuo I620-G30
	M. 2 single chip capacity	240GB	240GB	N/A	NA	/	/
	M.2 RAID levels	1	1	N/A	NA	/	/
Network card	Daughter card (NDC card type)	Four 1GE interfaces, or two 10GE plus two 1GE interfaces, or four 10GE interfaces, or two 25GE interfaces	Four 1GE interfaces, or two 10GE plus two 1GE interfaces, or four 10GE interfaces, or two 25GE interfaces	2 Gigabit and 2 Gigabit interfaces on board; 2 Gigabit / 4 Gigabit / 2 Gigabit / 1 or two 56G FDR IB interfaces can be selected through LOM slot 2 ports of SM211-2 * GE Intel i350 chip 1Gb Base-T SM212-4 * GE Intel i350 chip 4-port 1Gb Base-T SM233 2 * 10GE Intel X540 chip 2-port 10Gb Base-T SM210 4 * GE Qlogic Broadcom 5719 chip 4-port 1Gb Base-T	Support 1 OCP network card slot	Optional external plug-in OCP-C dual 10 Gigabit optical network card, 40 Gigabit optical network card, dual 10 Gigabit electrical port network card, four Gigabit electrical port network card 25G dual port network card	Optional integration of 2/4 1GE interfaces, or 2 10GE (optical or electrical)
	PCIe (occupies a standard slot)	Yes	Yes	Intel I350 4-port 1Gb Base-T network card Intel I350 2-port 1Gb	Supports up to 10 standard PCIE expansions,	/	Yes

Server model		Dell PowerEdge R740	Dell PowerEdge R740xd	Huawei RH2288H v5	Inspur NF5280 M5	Inspur SA5212M5	Sugon Tiankuo I620-G30
				Base-T network card Intel X540 2-port 10Gb Base-T network card Intel X710 2-port 10Gb SFP + network card Intel X710 4-port 10Gb SFP + network card single or dual port Emulex / Qlogic 16Gb / 8Gb FC HBA card	including 8 full height + 2 half height and half length		
GPU	GPU Max Supported Blocks	3 full-width 300W or 6 single-width 150W	3 full-width 300W or 6 single-width 150W	Supports up to 2 double-width GPUs	4 pieces	4 pieces	0
	GPU model	Nvidia Tesla V100 / P100, K80, K40, Grid M60, M10, P4, Quadro P4000.	Nvidia Tesla V100 / P100, K80, K40, Grid M60, M10, P4, Quadro P4000.	nVidia Tesla M60 nVidia Tesla M10 nVidia Tesla P4 nVidia Tesla P40 nVidia Tesla P100	NA	/	/
FPGA	FPGA Maximum Supported Blocks	N/A	N/A	/	NA	/	N/A
	FPGA model	POST RTS	POST RTS	/	NA	/	N/A
Hard drive	Type	Supports up to 16 x 2.5"	Supports up to 32 x 2.5"	8 * 2.5-inch hard disk	28 2.5-inch / 20	Supports up to 3.5 *	8-bay models: up

Server model		Dell PowerEdge R740	Dell PowerEdge R740xd	Huawei RH2288H v5	Inspur NF5280 M5	Inspur SA5212M5	Sugon Tiankuo I620-G30
backplane	(including the maximum number of supported hard disks)	<p>hard drives</p> <p>a. 16 x 2.5" SAS / SATA</p> <p>b. 8 x 2.5" SAS / SATA</p> <p>supports up to 8 x 3.5" hard drives</p> <p>a. 8 x 2.5" SAS / SATA</p> <p>does not support rear or internal hard drives</p>	<p>hard drives</p> <p>a. 24x2.5" front + 4x2.5" internal (3.5" bay) + 4x2.5" rear</p> <p>b. 24x2.5" front + 4x2.5" rear</p> <p>c. 24x2.5" front</p> <p>c. 24x2.5", including 12xNVMe</p> <p>support up to 18x 3.5" hard drive</p> <p>a. 12x3.5" front + 4x3.5" built-in + 2x3.5" rear hard drive</p> <p>b. 12x3.5" Front + 4x3.5" built-in + 4x2.5" rear hard drive</p> <p>b. 12 front</p> <p>supports up to 24x 2.5" NVMe disks</p>	<p>configuration --- 1 * RAID control card</p> <p>16 * 3.5-inch EXP hard disk configuration (front 12 + back 4) --- 1 * RAID control card</p> <p>24 * 2.5-inch straight hard disk configuration --- 3 * RAID control Card (Each 8 hard drives requires a RAID card)</p> <p>27 * 2.5-inch EXP hard drive configuration --- the first 25 and the next 2 --- 1 * RAID control card</p> <p>can be configured with 8 2.5-inch SAS / SATA / SSD hard drives</p> <p>can be configured 12/16/20 3.5-inch SAS / SATA hard disks</p> <p>can be configured 4/8/12/24/28 NVMe SSD disks</p> <p>can be configured</p>	<p>3.5-inch</p> <p>fronts: Supports up to 24 front 2.5-inch hard drives, or 12 3.5-inch hard drives</p> <p>Support 24 NVMe SSD full flash configurations.</p> <p>Built-in: Supports up to 4 3.5-inch hard drives and 2 M.2 SSDs</p> <p>Rear: Supports up to 4 3.5-inch hard drives and 4 2.5-inch hard drives</p>	<p>12 + 3.5" * 4 + 2.5 * 4, including 8 front NVMe,</p> <p>up to 32 2.5" (24 + 4 + 4), including 6 front NVMe</p> <p>-Support 24SAS / SSD, 6NVMe or 24 NVMe</p> <p>4GPU models with 4 GPUs supporting 8 hard drives</p>	<p>to 8 LFFLFF / SFF / SFF / SFF, which can support 8 U.2 SSDs12-bay models:</p> <p>up to 12 LFF12 LFF12 LFF12 LFF / SFF / SFF / SFF, of which, Among them, it can support 8 U.2 SSDs.</p> <p>24 disk models: up to 24 SFF</p> <p>25 disk models: up to 25 SFF</p> <p>All models support optional hard disk mixing and optional 2 or 4 LFF / SFF</p>

Server model		Dell PowerEdge R740	Dell PowerEdge R740xd	Huawei RH2288H v5	Inspur NF5280 M5	Inspur SA5212M5	Sugon Tiankuo I620-G30
				with 31 2.5-inch SAS / SATA / SSD hard disks			
	Whether to support hard disk hot swap	Yes	Yes	Yes	Yes	/	Yes
Hard disk configuration	Model and quantity	SAS / SATA / SSD; 16 * 2.5`` / 8 * 3.5 "	SAS / SATA / SSD / NVMe; 32 * 2.5" / 18 * 3.5 " / 24 * NVMe	300GB / 600GB / 900GB / 1.2TB 10K to SAS 300GB / 600GB 15K to SAS 2TB / 3TB / 4TB 7.2K to NL-SAS 1TB / 3TB / 4TB 7.2K to SATA 1.2TB / 1.6TB / 1.92TB / 240GB / 3.84TB / 480GB / 800GB / 960GB SSD supports NVMe 1.2TB / 2TB / 3.2TB / 1.6TB / 800GB SSD	Front: Supports up to 24 front 2.5-inch hard drives, or 12 3.5-inch hard drives. Support 24 NVMe SSD full flash configurations. Built-in: Supports up to 4 3.5-inch hard drives and 2 M.2 SSDs Rear: Supports up to 4 3.5-inch hard drives and 4 2.5-inch hard drives	/	SAS / SATA / NVMe; 29 * 2.5" / 8 * 3.5 "
Case	Dimensions (cm)	86.5mm (height) * 482mm (width) * 751.34mm (depth) (including safety panel) 28.6kg	86.5mm (height) * 482mm (width) * 751.34mm (depth) (including safety panel); 33.1kg	3.5-inch hard disk case: 86.1mm × 447mm × 748mm (3.39in. × 17.60in. × 29.45in.)	NA	/	87.8mm (height) x 448 mm (width) x 794.4mm (depth) 87.8mm (height) x 482 (including box

Server model		Dell PowerEdge R740	Dell PowerEdge R740xd	Huawei RH2288H v5	Inspur NF5280 M5	Inspur SA5212M5	Sugon Tiankuo I620-G30
				2.5-inch hard disk case: 86.1mm × 447mm × 708mm (3.39in. × 17.60in. × 27.87in.)			ears) mm (width) x 801.2 (including thumb screws) mm (depth)
	Ventilation method	Air-cooled	Air-cooled	Wind after wind	NA	/	Air-cooled
Temperature	Equipment operating temperature range (Celsius)	10 ° C to 35 ° C	10 ° C to 35 ° C	Operating temperature: 5 ° C to 45 ° C (41 ° F to 113 ° F) (in accordance with ASHRAE CLASS A3 and A4 standards)	10 ° C -35 ° C	/	5 ° C - 40 ° C (41 ° C - 104 ° C) during storage, - 40 ° C - 60 ° C (-40 ° C - 140 ° C)
	Equipment working humidity range	10% to 80%	10% to 80%	Operating humidity: 8% RH to 90% RH non-condensing	20% -80% relative humidity	/	N/A
Hot-swappable power supplies	Nominal power of single power supply (W)	Titanium 750W, Platinum 495W, 750W, 1100W, 1600W and 2000W 240V HVDC 750W 336V HVDC 1100W -48V DC 1100W	Titanium 750W, Platinum 495W, 750W, 1100W, 1600W and 2000W 240V HVDC 750W 336V HVDC 1100W -48V DC 1100W	500W / 900W / 1200W / 1500W, titanium / platinum power supply	Single / dual power 550W / 800W / 1300W / 1600W and above 1 + 1 redundant power supply, can support high-voltage DC and titanium power supply	Platinum redundant dual power, can support Active-Standby, high voltage DC and other functions, can support single and dual power; support PMbus, Ruineng Smart Power power	Platinum standard as standard, support titanium grade optional 550W or 1200W CRPS CRPSCRPS high-efficiency platinum power supply, can be

Server model		Dell PowerEdge R740	Dell PowerEdge R740xd	Huawei RH2288H v5	Inspur NF5280 M5	Inspur SA5212M5	Sugon Tiankuo I620-G30
						management technology	increased to 1 + 1 redundancy
	Quantity	2	2	2	2	2	2
	Dual power mode	Redundancy	Redundancy	1 + 1 Redundancy	Redundancy	/	Redundancy
	input method	220V AC / 48VDC / 380HVDC / 240HVDC	220V AC / 48VDC / 380HVDC / 240HVDC	110V / 220V AC or 240V / 380V DC or -48v--60v DC power supply	Support HVDC	/	N/A
PCI-E (I / O)	Quantity	Up to 8 Gen3 slots (4 x 16)	Up to 8 Gen3 slots (4 x 16)	Up to 9 PCIe expansion slots IO module 1 and IO module 2 support the following PCIe specifications: support 2 full-height full-length PCIe3.0 x16 standard cards (signals are PCIe3.0 x8) and 1 full-height half-length PCIe3 .0 x16 standard card (signal is PCIe3.0 x8). Supports one full-height full-length PCIe3.0 x16 standard card and one full-	Supports up to 10 standard PCIe slots	Supports up to 9 PCIE, one of which is dedicated slot for OCP network card	Supports up to 10 PCIe 3.0 slots

Server model		Dell PowerEdge R740	Dell PowerEdge R740xd	Huawei RH2288H v5	Inspur NF5280 M5	Inspur SA5212M5	Sugon I620-G30	Tiankuo
				<p>height half-length PCIe3.0 x16 standard card (the signal is PCIe3.0 x8).</p> <p>IO module 3 supports the following specifications:</p> <p>1 full-height half-length PCIe3.0 x16 standard card (signal is PCIe3.0 x8) and 1 full-height half-length PCIe3.0 x8 standard card.</p> <p>Supports one full-height half-length PCIe3.0 x16 standard card.</p> <p>The PCIe expansion slot supports Huawei's independent development of PCIe SSD memory cards, which can greatly improve I / O performance in application areas such</p>				

Server model		Dell PowerEdge R740	Dell PowerEdge R740xd	Huawei RH2288H v5	Inspur NF5280 M5	Inspur SA5212M5	Sugon Tiankuo I620-G30
				as search, cache, and download.			
USB port	Quantity	5	5	Front panel provides 2 USB 2.0 ports, 1 USB 3.0 port Rear panel provides 2 USB 3.0 ports Built-in 1 USB 3.0 port	2 rear USB 3.0 ports, 2 built-in USB 3.0 ports, 2 front USB ports	/	N/A
Out-of-band management	Yes or No	Yes	Yes	Yes	Yes	/	Yes
	The main function	IPMI 2.0 Compliant iDRAC9 (Express Edition, Enterprise Edition) with Lifecycle Controller Optional Quick Sync 2 Wireless Module	IPMI 2.0 Compliant iDRAC9 (Express Edition, Enterprise Edition) with Lifecycle Controller Optional Quick Sync 2 Wireless Module	UEFI iBMC uses independent interfaces, supports SNMP v1 / v2c / v3, IPMI 2.0, Redfish 1.0, and provides GUI, virtual KVM, virtual media, SOL, deep pre-fault detection (PFA), intelligent power, remote control, hardware monitoring and other features. Supports NCSI. Supports Huawei eSight management software and integration with third-	Integrated 1 independent 1000Mbps network interface, dedicated for remote management of IPMI	Integrated independent management network port, can support management functions such as redfish, IPMI 2.0, KVM over IP, virtual media; support data network port management multiplexing function; support Inspur ICM server management, deployment software	Integrated BMC, support advanced management functions such as IPMI2.0, SOL, KVM Over IP, and virtual media, and provide a 1Gbps RJ45 management port to the outside, which can support NCSI function

Server model		Dell PowerEdge R740	Dell PowerEdge R740xd	Huawei RH2288H v5	Inspur NF5280 M5	Inspur SA5212M5	Sugon Tiankuo I620-G30
				party management systems such as VMware vCenter, Microsoft SystemCenter, and Nagios.			
Energy management	Yes or No	Yes	Yes	Yes	NA	/	Yes
System cooling fan		Air baffle, vector heat dissipation	Air baffle, vector heat dissipation	4 hot-swappable fans, support single fan failure	NA	/	Power capping, dynamic phase switching
LCD display		Optional	Optional	Supported (only supported in 8 2.5" hard drive bay configurations)	Support LCD display module	/	8-bay models can choose two-button LCM monitor screen, 12-bay or 24-bay models do not support LCM monitors
Host front panel with keyhole and key		Yes	Yes	Support (security panel)	No	/	N/A
Other		Cryptographically signed firmware; Hardware Root of Trust; Secure Boot; System Lockdown; System Erase;	Cryptographically signed firmware; Hardware Root of Trust; Secure Boot; System Lockdown; System Erase;	Power-on password administrator password TPM security panel	NA	/	Off-line light path diagnosis technology, refined fault alarm

Server model	Dell PowerEdge R740	Dell PowerEdge R740xd	Huawei RH2288H v5	Inspur NF5280 M5	Inspur SA5212M5	Sugon I620-G30	Tiankuo
	OpenManage connections: Nagios & Nagios XI, Oracle Enterprise Manager, HP Operations Manager, IBM Tivoli Netcool / OMNIBus, IBM Tivoli® Network Manager, CA Network and Systems Management	OpenManage connections: Nagios & Nagios XI, Oracle Enterprise Manager, HP Operations Manager, IBM Tivoli Netcool / OMNIBus, IBM Tivoli® Network Manager, CA Network and Systems Management					

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