

## Huawei RH1288H V5 VS Servers of HPE, H3C, Lenovo, Dell, Inspur and Sugon

Server Model		Huawei RH1288H V5 Rack Server	<a href="#">HPE Proliant DL380 G10 Server</a>	H3C UniServer R4700 G3 Server	Lenovo ThinkSystem SR630 Server
<b>Advantages of Dell Servers</b>		Security characteristics;There are more choices on the guiding medium of SDS;Network sub-card support 25Gb;DELL H740P can be configured with up to 8GB of cache capacityDELL supports double SD CARDS, double M.2 SATADOMQuick Sync 2 smart management panelSupport NVDIMM	8GB RAID Cache supports more 2.5" HDDS	Quick Sync\750W Titanium/5USB/25GbE NDC/8G raid cash/	R640 supports 8GB cache RAID CARDS, built-in redundant SD modules, NVDIMM, and Quick Sync wireless management
<b>Disadvantages of Dell Servers</b>		RAID CARDS do not support ultracapacitors	Number of supported NVMe, GPU	NVMe and GPU are not supported,memory is up to 3T	The number of GPU and PCIE slots is not supported
<b>CPU</b>	<b>Model</b>	Support 1 to 2 Intel® Xeon® Scalable processors 3100, 4100, 5100, 6100, 8100 Series	1 -2 1 to 2 Intel® Xeon® processors 8100/6100/5100/4100/3100 Series	Max support 2 Intel ® xeon ® Skylake processor, 4/8/12/16/18/20/22/24/26/28k ernel, max support 205 w power	Intel Xeon Bronze, Silver, Gold, or Platinum processors
	<b>CPU model</b>	8180(28c/2.5GHz)	8080/8010M	Platinum 8180M	Intel Xeon Platinum 8180 28C
<b>Chipset</b>		Lewisburg-2	Intel C621	Intel C621	Intel C624
<b>RAM</b>	<b>Model</b>	24 DDR4 DIMM slots, up to 2666MT/s	Supports up to 24 128GB/2667MHz/LRDIMM 32GB/2667MHZ/RDIMM	24 DDR4 memory slots, up to 2666MT/s, RDIMM or LRDIMM	24 DDR4 DIMM slots, up to 2666MT/s
	<b>Total Capacity</b>	RDIMM: 2432gb RDIMM, maximum memory of 768GB for 2 processors.LRDIMM: 24 64GB LRDIMM, Max 1536GB ram for 2	3TB	Max capacity 3.0TB	RDIMMs up to 768GB. LRDIMMs up to 1.5TB. 3DS RDIMMs up to 3TB.(support is planned for future)

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		processors.			
Permanent memory			Supports 12 permanent memory with a max capacity of 192GB		Does not support
Storage controller	Model	Sr130-m (LSI SAS3008) does not support RAID, supports IT working mode, and supports iBMC out-of-band management. SR430C -m (LSI SAS3108) can support RAID 0/1/10/5 50/6/6 0, support the super capacitor protection, support iBMC out-of-band management.	1 S100i 1 E208i-a/E208e-p 1 P408i-a/P408e-p 1 P816i-a	Standard onboard array controller for SATA RAID 0/1/10/5Optional HBA card based on array card dedicated slot, support SATA/SAS RAID 0/1/10/5Optional array card based on array card proprietary slots, with raid0/1/10/5/6/50/60/1e supportOptional HBA card and smart array card based on standard PCIe slot	<b>12Gbps RAID Controller:</b> 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 4GB Flash PCIe 12Gb Adapter  <b>12Gbps non-RAID HBA Card:</b> ThinkSystem 430-8i SAS/SATA 12Gb HBA ThinkSystem 430-16i SAS/SATA 12Gb HBA  <b>NVMe PCIe interfaces (non-RAID)</b> Onboard NVMe interface (4-port)
	Cache Size/Maximum	0/4GB	4GB	2G	None、1GB、2GB、4GB
	Cache Protection Type	Capacitance		flash	None(530-8i、730-8i)、Flash backup (930-8i、930-16i)
	Battery or Capacitance	Capacitance	Battery		Capacitance
	Main technical	Support for RAID	12Gb SAS, up to 240	Supports up to 2GB 72-bit wide	Controller chips: SAS3408(530-8i),

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	characteristics	0/1/00/5/6/50/60, hot disk backup, read-write cache, data drop protection, CacheCade, disk patrol, automatic s.m.a.r.t-scan, hard drive energy saving, hard drive roaming, and more		bus ddr3-1600mhz cache	SAS3108(730-8i), SAS3508 (930-8i), SAS3516 (930-16i), SAS3408(430-8i), SAS3416 (430-16i) RAID support: 530-8i (0\1\10\5\50), 730-8i (0\1\10\5\ 6\ 50), 930-8i (0\1\10\5\ 6\60), 930-16i (0\1\10\5\ 6\60)
SD Card	Number of SD cards	SD CARDS are not supported	1 (optional 2)	2	SD CARDS are not supported
	SD card capacity	N/A	8GB/32GB	Unknown	N/A
	SD cards can form RAID levels	N/A	RAID 1	Unknown	N/A
M.2	M.2 quantity	2	2	Unknown	1 or 2
	M. 2 single chip capacity	N/A	1.92TB	256G	ThinkSystem M.2 CV1 32GB ThinkSystem M.2 CV3 128GB
	M.2 RAID levels	N/A	RAID 1	Unknown	RAID0、RAID1
Network card	Sub-Card (NDC Card Type)	Onboard network card: 2 10GE interfaces and 2 GE interfaces SM211-2*GE Intel i350 chip 2 ports 1Gb Base-T SM212-4*GE Intel i350 chip 4 ports 1Gb Base-T SM233 2*10GE Intel X540 chip 2 ports 10Gb Base-T SM210 4*GE Qlogic Broadcom 5719 chip 4 ports 1Gb Base-T	4x1 Gb onboard,optional FlexibleLOM x10gb / 4 x10gb / 2 x25gb	Board 1 1Gbps management network portOptional 4x1GE electrical port or 2x10GE electrical port/optical port via mLOM expansionOptional PCIe socket based network adapter	<b>LOM cards (Intel X722, incompatible with 10/100mb rate)</b> 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 <b>ML2 adapters</b> Broadcom NX-E ML2 10Gb 2-Port

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					Base-T Ethernet Adapter Emulex VFA5.2 ML2 Dual Port 10GbE SFP+ Adapter Emulex VFA5.2 ML2 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW Intel X710-DA2 ML2 2x10GbE SFP+ Adapter Mellanox ConnectX-4 Lx ML2 1x25GbE SFP28 Adapter Mellanox ConnectX-4 Lx ML2 25Gb 2-Port SFP28 Ethernet Adapter Mellanox ConnectX-3 Pro ML2 FDR 2-Port QSFP VPI Adapter
	<b>PCIe (occupies a standard slot)</b>	Intel I350 4 ports 1Gb Base-T NIC Intel I350 2 ports 1Gb Base-T NIC Intel X540 2 ports 10Gb Base-T NIC Intel X710 2 ports 10Gb SFP+ NIC Intel X710 4 ports 10Gb SFP+ NIC 1 or 2 ports Emulex/Qlogic 16Gb/8Gb FC HBA card	No (embedded, no slot occupied)	4 PCIe 3.0 available slots (2 standard slots, 1 special slot for array card, 1 special slot for network card)	Yes
<b>GPU</b>	<b>GPU Max Supported Blocks</b>	Supports up to 1 single-width GPU	2 single width	Supports 2 single-width GPU	1
	<b>GPU model</b>	nVidia Tesla P4	Nvidia Tesla P4 Quadro P2000/P4000	Unknown	NVIDIA Quadro P2000 PCIe Active GPU
<b>FPGA</b>	<b>FPGA Maximum Supported Blocks</b>	Unknown	N/A	Unknown	N/A
	<b>FPGA model</b>	Unknown	N/A	Unknown	N/A

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Hard drive backplane	Type (including the maximum number of supported hard disks)	10 2.5-inch hard drives (6-8 NVMe SSDs and 2-4 SAS/SATA hard drives) or 8 2.5-inch SAS/SATA/SSD drives (4 NVMe SSD drives) or 4 3.5-inch SAS/SATA/SSD drives	8SFF/10SFF/4LFF chassis optional, SATA/SAS/SSD supported Optional 10SFF case with NVMe/SATA/SAS/SSD support Optional post-1 SFF or 1 Dual UFF	Supports up to 4LFF front and 2SFF back extensions;Supports up to 10SFF front and 2SFF back extensions;Support SAS/SATA HDD/SSD hard drivesSupport 4 front NVMe hard drivesSATA m. 2 option supported	4 3.5-inch SAS/SATA hot plug hard drives 8 2.5-inch SAS/SATA hot plug hard drives 12 2.5-inch SAS/SATA hot swap hard drives (front 10, back 2) 10 2.5-inch U.2 NVMe PCIe SSD hot plug hard drives (support is planned for future)
	Whether to support hard disk hot swap	Yes	Yes	Yes	Yes
Hard disk configuration	Model and quantity	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	8+2+1 SFF SAS/SATA, 4 LFF, 10 NVMe	Supports up to 4LFF front and 2SFF back extensions;Supports up to 10SFF front and 2SFF back extensions;Support SAS/SATA HDD/SSD hard drives Support 4 front NVMe hard drives SATA m. 2 option is supported	<b>2.5-inch 12Gbps SAS hard drive:</b> 300GB 15K、600GB 15K、900GB 15K、300GB 10K、600GB 10K、900GB 10K、1.2TB 10K、1.8TB 10K <b>3.5-inch 12Gbps SAS hard drive:</b> 300GB 15K、600GB 15K <b>2.5-inch 12Gbps NL-SAS hard drive:</b> 1TB 7.2K、2TB 7.2 <b>3.5-inch 12Gbps NL-SAS hard drive:</b> 1TB 7.2K、2TB 7.2K、4TB 7.2K、6TB 7.2K、10TB 7.2K <b>3.5-inch 6Gbps SATA hard drive:</b> 1TB 7.2K、2TB 7.2K、4TB 7.2K、6TB 7.2K、8TB 7.2K、10TB 7.2K <b>2.5-inch 6Gbps SATA hard drive:</b> 1TB 7.2K、2TB 7.2K

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					<b>2.5-inch SSD hard drive:</b> SAS interface: HUSMM32 400GB、HUSMM32 800GB、PM1635a 400GB、PM1635a 800GB、PM1633a 3.84TB、PM1633a 7.68TB <b>SATA interface:</b> PM863a 240GB、PM863a 480GB、Intel S3520 240GB、Intel S3520 480GB、 <b>NVMe PCIe interface:</b> U.2 PX04PMB 800GB、U.2 PX04PMB 1.6TB、U.2 PX04PMB 960GB、U.2 PX04PMB 1.92TB、U.2 PM963 1.92TB、U.2 PM963 3.84TB
Chassis	Dimensions (cm)	3.5-inch hard disk case: 43mm x 436mm x 748mm (1.69in. x 17.17in. x 29.45in.) 2.5-inch hard disk case: 43mm x 436mm x 708mm (1.69in. x 17.17in. x 27.87in.)	SFF: 4.29 x 43.46 x 70.7 cm LFF: 4.29 x 43.46 x 74.98 cm	42.88mm (H) * 434.59mm (W) * 768.3mm (D) (without security panel) 42.88mm (H) * 434.59mm (W) * 780.02mm (D) (with Security panel)	1 U height Height: 43 mm (1.7 in) Width: 434 mm (17.1 in) Depth: 715 mm (28.1 in)
	Ventilation method	Wind after wind	Forward wind	Forward wind	Wind after wind
Temperature	Equipment operating temperature range (°C)	Operating temperature: 5 °C ~ 45 °C (41°F ~ 113°F) (ASHRAE CLASS A3 and A4 standards)	10°C to 35°C	5°C~45°C	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

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					(41 °C - 104 °C); for altitudes above 900 m (2,953 ft), decrease the maximum ambient 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: 8% RH ~ 90% RH non-condensation	8% - 90%	Unknown	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)
<b>Hot-swappable power supplies</b>	<b>Nominal power of single power supply (W)</b>	550W AC platinum power supply	HPE universal socket redundant power module 500 w /800 w /1600 w	Optional platinum level 550W/800W/1200W 1+1 redundant power supplySupport for hot plug redundant fans	ThinkSystem 550W (230V/115V) Platinum Hot-Swap Power Supply ThinkSystem 750W (230/115V) Platinum Hot-Swap Power Supply ThinkSystem 750W (230V) Titanium Hot-Swap Power Supply ThinkSystem 1100W (230V/115V) Platinum Hot-Swap Power Supply

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	Quantity	2	1 to 2	2	2
	Dual power mode	1+1 redundancy	Redundancy	Redundancy	N+N
	Input method	110V/220V AC or 240V/380V DC or -48V DC	240VAC/48VDC/380VDC	Unknown	100 - 127 (nominal) V AC; 50 Hz / 60 Hz 200 - 240 (nominal) V AC; 50 Hz / 60 Hz 180 - 300 V DC (supported in China only)
PCI-E (I/O)	Quantity	Up to four pcie3.0x8 PCIe expansion slots are supported, one for RAID CARDS and three for standard PCIe expansion slots. PCIe Riser module 1, supports 1 half high and half long pcie3.0x16 standard card (signal is pcie3.0x16). The PCIe Riser module 2 supports 1 half high and half long pcie3.0x16 standard card (signal pcie3.0x16) and 1 full high and half long pcie3.0x16 standard card (signal pcie3.0x8). PCIe expansion slot supports huawei's independent development of PCIe SSD memory card, which can greatly	3	4 PCIe 3.0 available slots (2 standard slots, 1 special slot for array card, 1 special slot for network card)	Up to 4 PCIE 3.0 slots (including 1 dedicated RAID adapter PCIE) LOM card slot Slot 1: PCIe 3.0 x8, ML2 x8, or ML2 x16; low profile Slot 2: PCIe 3.0 x16 or x8; low profile or full-height, half-length Slot 3: PCIe 3.0 x16; low profile Slot 4: PCIe 3.0 x8 (dedicated to an internal storage controller)



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		improve I/O performance in search business, Cache business, download business and other application fields.			
USB port	Quantity	The front panel provides 1 USB 2.0 port and 1 USB 3.0 port The back panel provides 2 USB 3.0 ports Built-in 1 USB 3.0 port	5	4 USB 3.0 (2 back, 2 built-in);	Total 4 USB ports 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
	The main function	UEFI iBMC Adopt independent interface, support SNMP v1/v2c/v3, IPMI 2.0, Redfish 1.0, provide GUI, virtual KVM, virtual media, SOL, intelligent power, remote control, hardware monitoring and other features。 Support NCSI. Support for huawei eSight management software, support for VMware vCenter, Microsoft SystemCenter, Nagios and other third party management system integration.	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 has no agent management tools (with independent management port) and H3C FIST management software	XClarity Controller (XCC) Standard、Advanced、Enterprise Features of the Standard version are included by default, optionally upgraded to Advanced or Enterprise by Features on Demand (FoD) Mobile management function is supported (Xclarity Mobile App+ USB interface), and Mobile App supports Android or iOS
Energy management	Yes or No	Yes	Yes	Yes	Yes, Lenovo XClarity Energy Manager

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System cooling fan	7 hot plug fans, support single fan failure	7	Unknown	7 hot plug fans, support N+1 redundancy, 5 for 1 CPU, 7 for 2 CPU
LCD display	N/A	Systems Insight Display	Yes	N/A, it is diagnosed by Light path diagnostics
Host front panel with keyhole and key	Support (security panel)	Yes	Yes	Support, optional lock panel (ThinkSystem 1U Security Bezel)
Other	N/A		CCC, CECP, SEPA certification	Lenovo AnyBay is a unique drive bay type that allows a choice of drive interface types in the same drive bay: SAS drives, SATA drives, or U.2 NVMe PCIe drives.

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Advantages of Dell Servers	Security characteristics;There are more choices on the guiding medium of SDS;Network sub-card support 25Gb;DELL H740P can be configured with up to 8GB of cache capacityDELL supports double SD CARDS, double M.2 SATADOMQuick Sync 2 smart management panelSupport NVDIMM	Perfect balance of performance and density	R640 support NVMe	Support high TDP CPU (higher than 165W);All PCIe slots are x16;Inspur does not support IDSMD	
Disadvantages of Dell Servers	RAID CARDS do not support ultracapacitors				

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CPU	Model	Support 1 to 2 Intel® Xeon® Scalable processors 3100, 4100, 5100, 6100, 8100 Series	Intel® Xeon® Scalable 8100/6100/5100/4100/3100 Series	Intel Skylake 3/4/5/6/8 Series	Intel® Xeon® processors purley series, Max TDP supports 165W	
	CPU model	8180(28c/2.5GHz)	8180M	NA		
Chipset		Lewisburg-2	Intel C621	C622/C624		
RAM	Model	24 DDR4 DIMM slots, up to 2666MT/s	24 128GB/2667MHz/LRDIMM Support for 2933MHz RDIMM since April 2019	24 memory slots, up to DDR4-2666, support RDIMM, LRDIMM.	24 DIMM DDR4, support RDIMM/LRDIMM, Max memory operating frequency 2666MHz	24 memory slots, support RDIMM、LRDIMM、NVDIMM and NVDIMM-N
	Total Capacity	RDIMM: 2432gb RDIMM, maximum memory of 768GB for 2 processors.LRDIMM: 24 64GB LRDIMM, Max 1536GB ram for 2 processors.	3TB	One 128G supports up to 3TB		3TB
Permanent memory			12 NVDIMM, Max. 192GB		Support for 12 AEP memory modules (Cascade CPU required)	
Storage controller	Model	Sr130-m (LSI SAS3008) does not support RAID, supports IT working mode, and supports iBMC out-of-band management. SR430C -m (LSI SAS3108) can support RAID 0/1/10/5 50/6/6 0, support the super capacitor protection, support iBMC out-of-band management.	<b>6Gbps SATA Controller:</b> onboard SW RAID S140 <b>12Gbps RAID Controller:</b> 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/SATA/SSD;	External Raid/SAS card:RAID card controllerSAS3108, SAS3008IMR, 9361-8i, PM8060; SAS card controllerThe 9400-8 I, SAS3008ITOnboard SATA controller:Soft RAID is implemented through RAID keys		

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			RAID Controller H330, 12Gb/s SAS, 6Gb/s SATA, support SAS/SATA/SSD, no cache, PCIe <b>Internal controller: HBA330</b> 12Gb/s SAS, 6Gb/s SATA, No Cache, No RAID, Pass through only <b>External PERC (RAID) : RAID            Controller H840</b> RAID Controller H840, 2Gb/s SAS, 6Gb/s SATA, 8GB NV, PCIe, support SAS/SATA/SSD, 0/1/5/6/10/50/60 <b>External HBA (NO RAID) :</b> <b>12 Gbps SAS HBA</b> No Cache, No RAID, Pass through only			
	Cache Size/Maximum	0/4GB	8GB	NA		
	Cache Protection Type	Capacitance				
	Battery or Capacitance	Capacitance	Battery	NA		
	Main technical	Support for RAID 0/1/00/5/6/50/60, hot disk	<b>Controller Chip:</b> H730P(LSISAS 3108),	Configurable storage controller with cache to		

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	characteristics	backup, read-write cache, data drop protection, CacheCade, disk patrol, automatic s.m.a.r.t-scan, hard drive energy saving, hard drive roaming, and more	H740P(LSISAS 3508), H330(LSI SAS3008) <b>RAID Support:</b> 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 power-off protection module		
SD Card	Number of SD cards	SD CARDS are not supported	2	NA	NA	
	SD card capacity	N/A	64GB	NA		
	SD cards can form RAID levels	N/A	1	NA		
M.2	M.2 quantity	2	2	2	2 SATA M.2 SSD	
	M. 2 single chip capacity	N/A	240GB	NA		
	M.2 RAID levels	N/A	1	NA		
Network card	Sub-Card (NDC Card Type)	Onboard network card: 2 10GE interfaces and 2 GE interfaces SM211-2*GE Intel i350 chip 2 ports 1Gb Base-T SM212-4*GE Intel i350 chip 4 ports 1Gb Base-T	4 1GE interfaces, or 2 10GE plus 2 1GE interfaces, or 4 10GE interfaces, or 2 25GE interfaces	Support 2 OCP network card slots, OCP rate 10Gb/s,25Gb/s; Standard PCIE nic: rate 1/10/25/40/100 Gb/s	Supports 2 OCP network card slotsOpt-out ocp-c dual 10 gigabit optical fiber network card, 40 gigabit optical fiber network card, dual 10 gigabit electrical	

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		SM233 2*10GE Intel X540 chip 2 ports 10Gb Base-T SM210 4*GE Qlogic Broadcom 5719 chip 4 ports 1Gb Base-T			port network card, 4 gigabit electrical port network card Ocp-a dual 10 gigabit fiber network card, dual 10 gigabit port network card and 25G dual port network card are optional Ocp-a +B double 100G fiber network card is optional	
	<b>PCIe (occupies a standard slot)</b>	Intel I350 4 ports 1Gb Base-T NIC Intel I350 2 ports 1Gb Base-T NIC Intel X540 2 ports 10Gb Base-T NIC Intel X710 2 ports 10Gb SFP+ NIC Intel X710 4 ports 10Gb SFP+ NIC 1 or 2 ports Emulex/Qlogic 16Gb/8Gb FC HBA card	Yes	Support 5 PCI-E slots		
<b>GPU</b>	<b>GPU Max Supported Blocks</b>	Supports up to 1 single-width GPU	1 single width	NA		
	<b>GPU model</b>	nVidia Tesla P4	NVS310	NA		
<b>FPGA</b>	<b>FPGA Maximum Supported Blocks</b>	Unknown	0	NA		
	<b>FPGA model</b>	Unknown	N/A	NA		

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Hard drive backplane	Type (including the maximum number of supported hard disks)	10 2.5-inch hard drives (6-8 NVMe SSDs and 2-4 SAS/SATA hard drives) or 8 2.5-inch SAS/SATA/SSD drives (4 NVMe SSD drives) or 4 3.5-inch SAS/SATA/SSD drives	Front drive carrier: Up to 10 2.5 inches SAS/SATA (HDD/SSD), Support up to 10 NVMe SSD; Up to four 3.5 inches SAS/SATA HDD; Back-end drive carrier; Up to two 2.5 inches SAS/SATA (HDD/SSD)	The front: Maximum support for 10 front 2.5 inch hard drives, support 2.5 "x2 SATA/SAS+8xNVMe support hot plug hybrid configuration, 4 3.5-inch hard disks +2 2.5-inch SSDs, Supports 10 NVMe SSD full flash configurations Postposition: 2.5 "x2 SATA SSD supports hot plug	Max support 3.5* 4 + 2.5 *2 -4sata, compatible with 4 NVMe SSDs -4sata, compatible with 1 NVMe SSD Maximum support 2.5* 10+ 2.5*2 -10nvme, supports 8 pieces of SAS/SSD -10sas /SSD, compatible with 8 NVMe SSDs	
	Whether to support hard disk hot swap	Yes	Yes	NA		
Hard disk configuration	Model and quantity	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	SAS/SATA/NVMe;12	Front: up to 10 front 2.5 inch hard drives, or 4 3.5 inch hard drives +2 2.5 inch SSDs.Supports 10 NVMe SSD full flash configurations Rear: supports up to 2 2.5-inch SSDs		

Server Model		Huawei RH1288H V5 Rack Server	<a href="#">Dell PowerEdge R640 Server</a>	Inspur NF5180 M5 Server	Inspur SA5112M5 Server	Sugon I610-G30 Server
Chassis	Dimensions (cm)	3.5-inch hard disk case: 43mm x 436mm x 748mm (1.69in. x 17.17in. x 29.45in.) 2.5-inch hard disk case: 43mm x 436mm x 708mm (1.69in. x 17.17in. x 27.87in.)	43.4 x 4.3 x 75.6; 21.3kg	Main unit: 435mm (width) x 43.05mm (height) x 750.5mm (depth) Outer packaging: 651mm (width) x 307mm (height) x 971mm (depth)		
	Ventilation method	Wind after wind	Air-cooled	Air-cooled		
Temperature	Equipment operating temperature range (°C)	Operating temperature: 5 °C ~ 45 °C (41°F ~ 113°F) (ASHRAE CLASS A3 and A4 standards)	10°C to 35°C	10°C -35°C		
	Equipment working humidity range	Working humidity: 8% RH ~ 90% RH non-condensation	10% to 80%	20-80% relative humidity		
Hot-swappable power supplies	Nominal power of single power supply (W)	550W AC platinum power supply	Titanium gold 750W, Platinum class 495W, 750W, 1100W and 1600W	Can support high voltage dc and titanium gold grade power supply, support 550W/800W/1200W and above output power supply	Platinum redundant dual power, can support active-standby, high-voltage dc and other functions, can support single and double power;Support PMbus, Smart Power Power management technology	
	Quantity	2	2	2	2	
	Dual power mode	1+1 redundancy	Redundancy	Redundancy		



Server Model		Huawei RH1288H V5 Rack Server	<a href="#">Dell PowerEdge R640 Server</a>	Inspur NF5180 M5 Server	Inspur SA5112M5 Server	Sugon I610-G30 Server
	Input method	110V/220V AC or 240V/380V DC or -48V DC	220VAC/48VDC/380HVDC/240HVDC	High voltage DC support		
PCI-E(I/O)	Quantity	Up to four pcie3.0x8 PCIe expansion slots are supported, one for RAID CARDS and three for standard PCIe expansion slots. PCIe Riser module 1, supports 1 half high and half long pcie3.0x16 standard card (signal is pcie3.0x16). The PCIe Riser module 2 supports 1 half high and half long pcie3.0x16 standard card (signal pcie3.0x16) and 1 full high and half long pcie3.0x16 standard card (signal pcie3.0x8). PCIe expansion slot supports huawei's independent development of PCIe SSD memory card, which can greatly improve I/O performance in search business, Cache business, download business and other application fields.	3 PCIe 3.0 x16 Slots	Up to 3 standard PCIe slots and 2 OCP slots can be supported	Supports up to 3 PCIE extensions, including 1 full height half length + 2 full height half length Riser adapter expandable: 1 pcie3.0x8 +x1 half high and half long; 1 pcie3.0x16 full height and half length;1 pcie3.0x16 half high and half long	
USB port	Quantity	The front panel provides 1 USB 2.0 port and 1 USB 3.0 port The back panel provides 2 USB 3.0 portsBuilt-in 1 USB 3.0 port	5	3.5X4 model: 2 USB3.0+1 USB3.0+1 USB 2.0+1 USB3.0 1 front VGA, 1 back VGA		

Server Model		Huawei RH1288H V5 Rack Server	<a href="#">Dell PowerEdge R640 Server</a>	Inspur NF5180 M5 Server	Inspur SA5112M5 Server	Sugon I610-G30 Server
				2.5 x10 model: 2 post-usb 3.0+2 pre-usb 2.0+1 built-in USB3.0 1 front VGA, 1 back VGA		
Out-of-band management	Yes or No	Yes	Yes	Yes		
	The main function	UEFI iBMC Adopt independent interface, support SNMP v1/v2c/v3, IPMI 2.0, Redfish 1.0, provide GUI, virtual KVM, virtual media, SOL, intelligent power, remote control, hardware monitoring and other features. Support NCSI. Support for huawei eSight management software, support for VMware vCenter, Microsoft SystemCenter, Nagios and other third party management system integration.	IPMI 2.0 compliant iDRAC9 with life cycle controller (Express edition, Enterprise edition) Optional Quick Sync 2 wireless module	Integrated with a single 1000Mbps network interface for remote management of IPMI	Integrated independent management network port, can support redfish, IPMI 2.0, KVM over IP, virtual media and other management functions;Support data interface management reuse function;Support for inspur ICM server management and deployment software	
Energy management	Yes or No	Yes	Yes	NA		
System cooling fan		7 hot plug fans, support single fan failure	Wind deflector plate, vector heat dissipation	System fans (7)		
LCD display		N/A	Optional	NA		
Host front panel with keyhole and key		Support (security panel)	Yes	NA		

Server Model	Huawei RH1288H V5 Rack Server	<a href="#">Dell PowerEdge R640 Server</a>	Inspur NF5180 M5 Server	Inspur SA5112M5 Server	Sugon I610-G30 Server
Other	N/A	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	NA		

## Related Sources

**Learn More about the server comparisons of Huawei and competitors:**

[Huawei RH2288H V5 VS Servers of HPE, H3C, Lenovo, Dell, Inspur and Sugon](#)

[Huawei RH2488H V5 VS Servers of HPE, H3C, Lenovo, Dell, Inspur and Sugon](#)

[Huawei RH5885H V5 VS Servers of HPE, H3C, Lenovo, Dell, Inspur and Sugon](#)

[Huawei FusionServer X6000, XH321 v5 VS Servers of HPE, Lenovo, Dell and Inspur](#)

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