**Features**

**Ultimate Performance**
NF5280M5 supports the new generation Intel® Xeon® Scalable processors, with up to 28 cores and 56 threads per CPU, up to 24*DDR4-2933 memories, 24* hot-swap NVMe SSDs full-flash configuration brings 15 billion IOPS, huge leap on storage. Supporting up to 4 double wide GPUs or 8 single wide GPUs. The FP16 computing power of single GPU can reach 112 teraflops which brings more feasibility for deep learning applications.

**Profound Configuration**
Supporting up to 20* 3.5” hard drives or 31* 2.5” hard drives in addition to 2* M.2 SSDs to implement massive storage, which is 1.5 times larger than former generation. Supporting free combination of OCP and PHY network cards with different network interfaces to provide 1Gb/10Gb/25Gb/40Gb flexible network configurations for different applications. Supporting 9*PCIe3.0 slots, 1*OCP/PHY PCIe slot, meeting the system and performance demand of high-end customers.

**Intelligent Management and Security**
Conducting real-time monitoring and intelligent isolation and recovering. It adopts open management protocol and INSPIR BMC, which simplifies deployment, management and maintenance, optimized for large scale DC. Supporting TPM2.0 security control, it conducts trust chain between soft and hardware as BIOS, memory, hard drive, OS and applications to prevent illegal write or replacement from unknown firmware. Ensuring system safe and controllable.

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## Specifications

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| Processor            | Supporting 1/2*Intel® Xeon® Scalable Processor  
Processor Core: up to 28 cores (freq. 2.7GHz)  
Processor Frequency: up to 3.8GHz (4 cores)  
TwoUPI interconnected links, the maximum transmission rate of single link is 10.4GT/s  
TDP: up to 205W |
| Chipset              | Intel C621/C622/C624                                                                                                                      |
| Memory               | Up to 24*DDR4 2400/2666/2933MT/s memory  
Single CPU supports 1/2*DIMMs, dual CPU supports 24*DIMMs  
Supporting RDIMM/LRDIMM/32GB/16GB/8GB/4GB (Skylake)/256GB (Cascade Lake)  
Each RDIMM/LRDIMM supports up to 128GB/128GB (Cascade Lake)  
Each DCPMM supports up to 512GB (Cascade Lake) |
| Storage              | Front: up to 12*3.5"/25*2.5" hard drives  
Internal: up to 4*3.5" and 2*M.2 SSDs  
Rear: up to 4*3.5", 4*2.5" hard drives  
Supporting SAS/SATA/SSD  
(The maximum quantity of supported hard drives is related to the specific configurations) |
| Storage Controller   | Onboard SATA controller, supporting RAID 0/1/5/10  
Onboard NVMe controller interface and Intel NVMe RAID Key is optional |
| Network              | Supporting 1*OCM or 1*PHY  
PHY: supporting 2/4* 1/10 Gb Ethernet port  
OCP: supporting 1/2* 10/25Gb Ethernet port  
Standard PCIe Ethernet card: supporting 1/10/25/40/100 Gb |
| I/O Scalable Slot    | Supporting up to 9*PCIe x8 slots and the different quantitative combination of x8/x16/OCP/PHY slots can be achieved by selecting different PCIe Riser  
Supporting up to 4 double wide GPU, 8 single wide GPU |
| Interface            | Front: 1*USB 2.0 (supporting LCD module), 1*USB 3.0, 1*VGA, 1*UID indicator light and button  
Internal: 2*USB 3.0  
Rear: 2*USB 3.0, 1*VGA, 1*Management interface, 1*UID indicator light and button |
| System Fan           | 4*SAS hot-swap N+1 redundant fans (dual-rotor)                                                                                           |
| PSU                  | Supporting 2*550W/800W/1300W/1600W/2000W PSU (Platinum/Titanium), 1+1 redundant                                                          |
| System Management    | Onboard BMC management module, supporting IPMI, SDR, KVM  
Over IP, virtual media and other management features, providing one 1Gb RJ45 management interface (supporting NCSI), supporting SSD life detection and other functions |
| OS                   | Supporting Windows Server/Red Hat/SUSE/CentOS/Debian/ Xenserver/ Oracle Linux/ESXi/Ubuntu etc.                                          |
| Dimension            | 435mm(W) x 87mm(H) x 780mm(D)                                                                                                           |
| Weight               | Full configuration=31kg, please refer to the technical white paper for details                                                           |
| Working Temperature  | 5°C ~ 45°C, please refer to the technical white paper for details                                                                        |