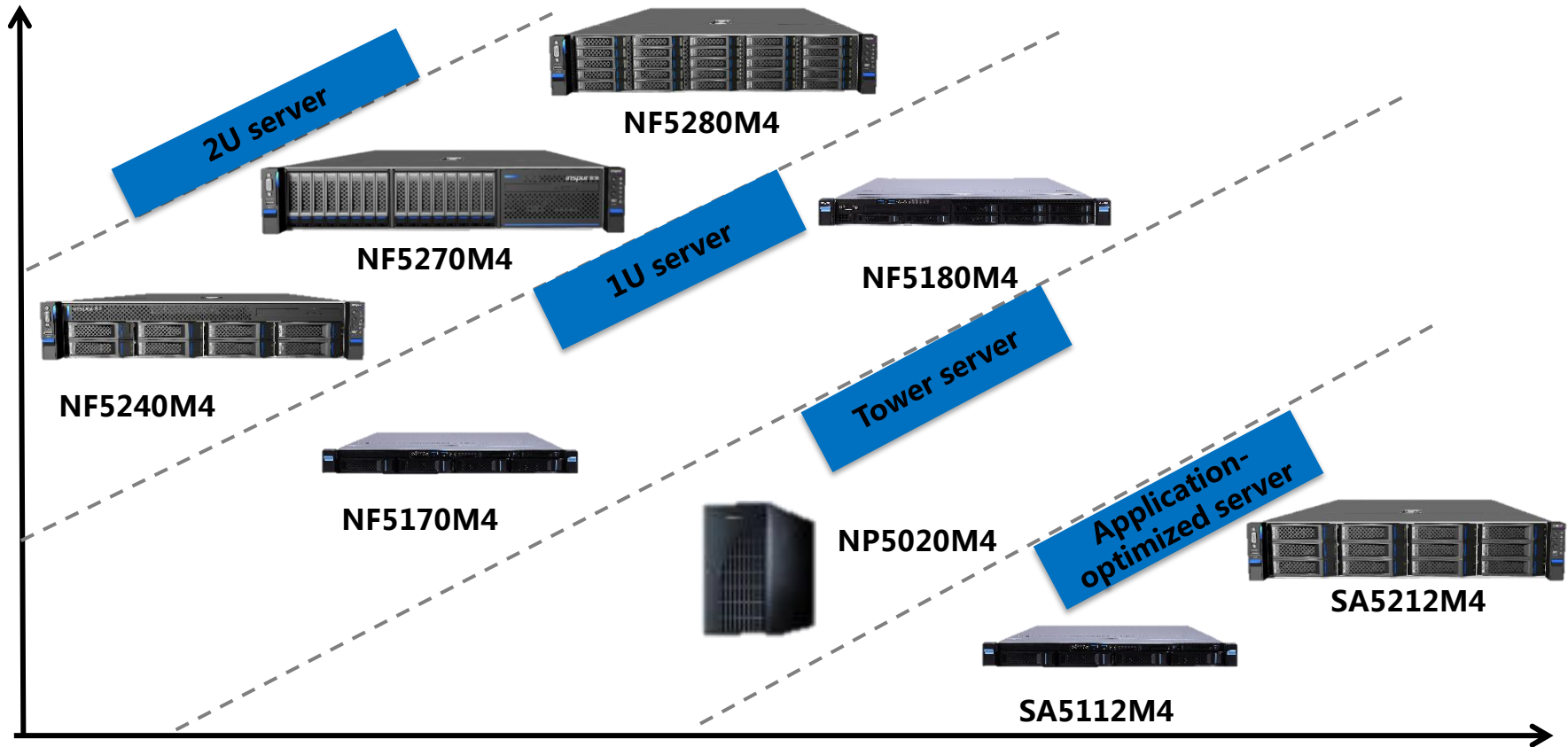




Серверы NF5270M4 и NF5280M4



Новая линейка 2-х процессорных серверов Inspur



2-х процессорные 2U серверы Inspur

NF5280 series:

Высокие технические характеристики, прекрасная расширяемость, оптимальная практичность

NF5270 series:

Отличная производительность

SA5212 series:

Сервер-система хранения

NF5240 series:

Entry-level сервер



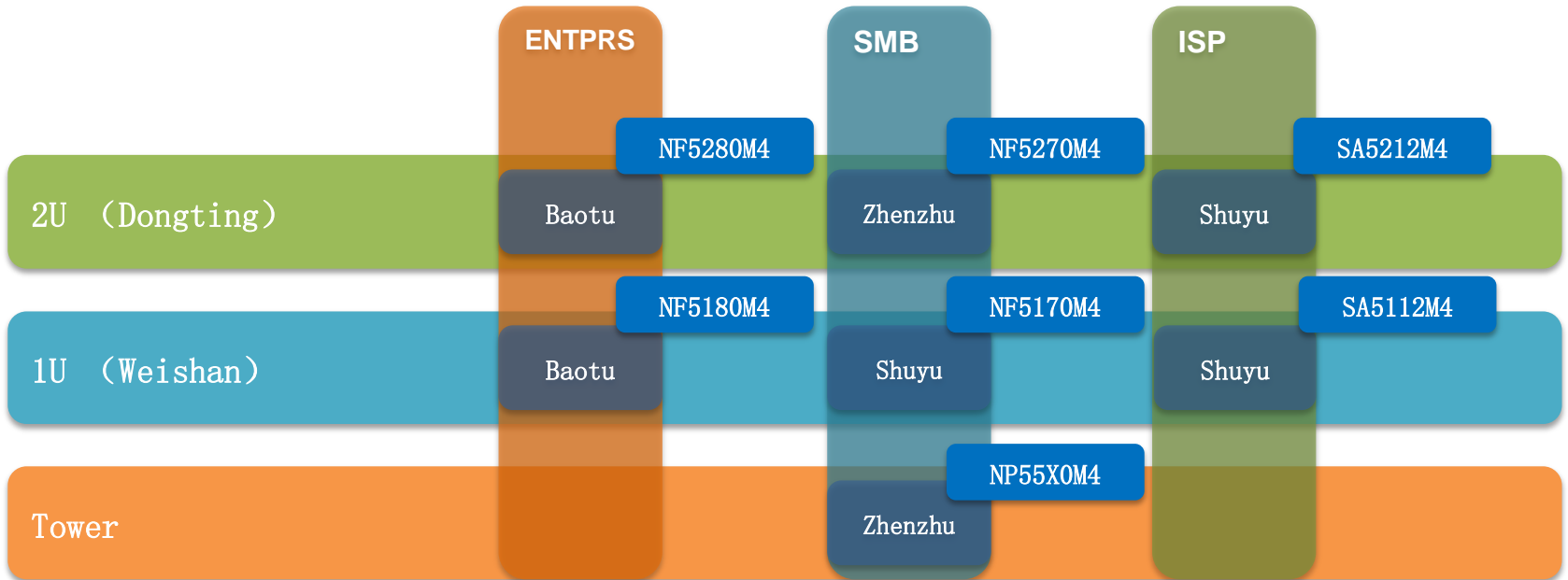
Database & virtualization

Big data application

CDN & distributed storage

Cost & Entry level

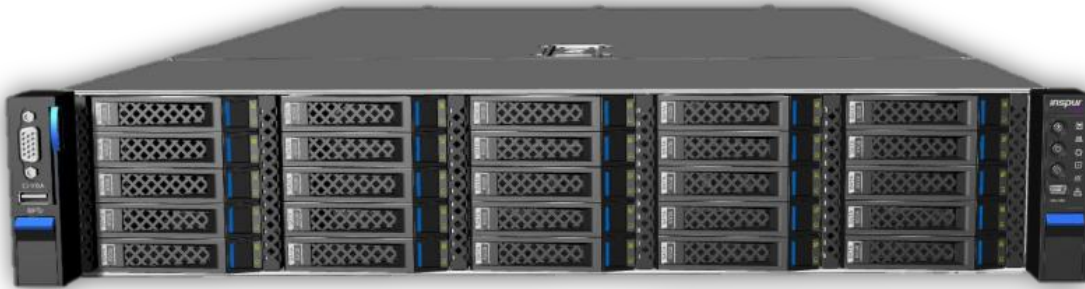
Общность материнских плат Grantley GP серверов



NF5270M4 standard configuration description

- All are equipped with DDR4 memory, with 8G\16G available for sales at present
- Support RS0810L RAID card (2208 card, 1G cache) or RS0805 RAID card (2108 card, 512M cache)
- With 3.5' 8-disk positions/12-disk positions (direct-attached backboard) available for sales now, 2.5' 8/16/24-disk positions, and the rear hard disk available for sales one month later
- One processor can support 3 PCI-E slots
- Non-expander design, the machine type with more than 8 disks must be linked through RAID card, and the ones with 16-disk positions and 24-disk positions respectively using 3 RAID cards; the current machine type with 12-disk positions uses 3 four-port direct-attached backboard, requiring to use two or three RAID cards
- 2.5' 8 disks with standard configuration: 550W platinum-level dual power supply; others with standard configuration: 800W dual power supply
- Modular designed power supply, available for supporting the upgrading of single-power supply to dual-power supply
- Standard configuration without CD-ROM, the standard configuration user manual is of electronic copy, and the paper copy will be charged.

Варианты компоновки



NF5270M4



Front VGA port

Asset tag

Front panel diagnosis indicator

Covered security lock

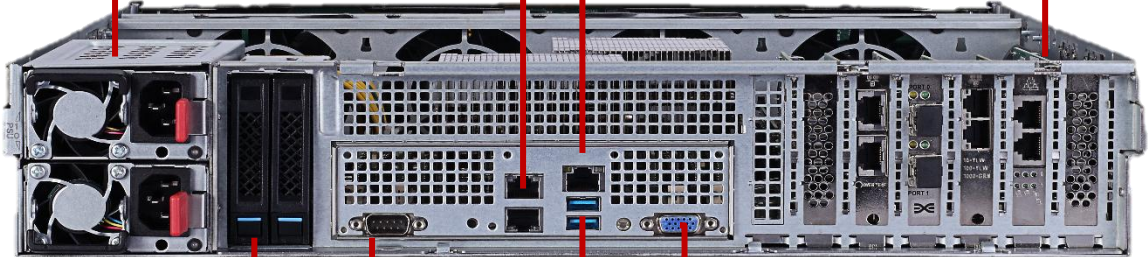
NF5270M4

Modular dual-power

Integrated dual Gigabit NIC

Private Gigabit management Ethernet interface

6 PCIe slots



Two rear hot-swap 2.5' hard disk

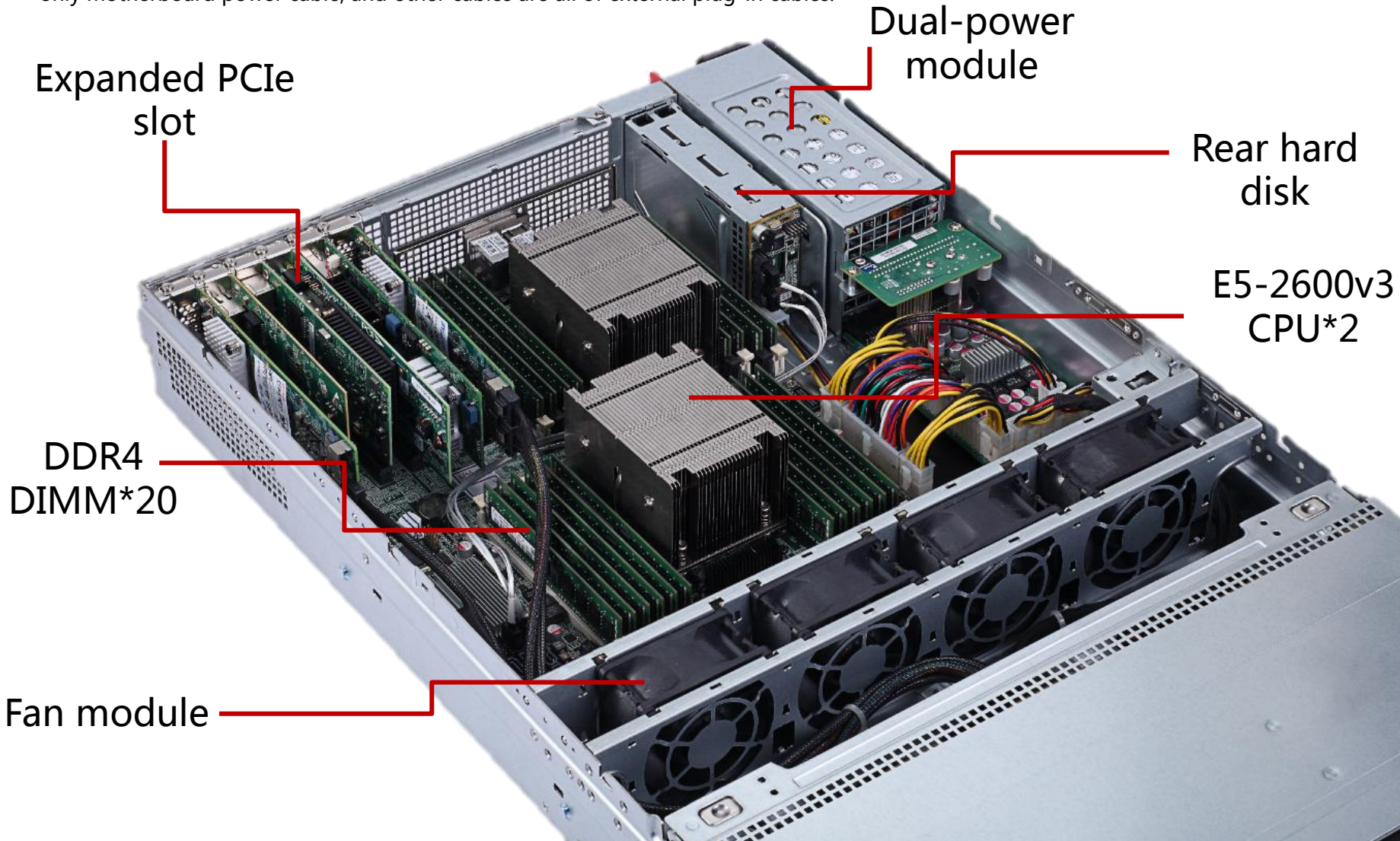
Rear VGA port

Two USB 3.0 ports

Rear serial port

NF5270M4

Picture of product with full configuration: The system is originally equipped with only motherboard power cable, and other cables are all of external plug-in cables.



100000 hour reliability tests by the authorized third-party



MTBF calculation		
Test Hours(T.H.)	6300	Hours
Sample Size(S.S.)	6	ea
Normal Operating Temperature	45	°C
Stress Temperature	60	°C
Normal Operating Voltage	1	V
Stress Voltage	1	V
Activation Energy	0.600	eV
60% Confidence Level Result		
λ =	9040.47 FITs	12.62714 years
MTTF=	110,614 Device Hours	
90% Confidence Level Result		
λ =	22718.17 FITs	5.024844 years
MTTF=	44,018 Device Hours	

- “ The third-party professional test company
- “ Certification of lab verification and testing capability
 - “ The reports issued by the accredited lab can be accepted by 58 organizations around the world.
- “ Test conditions and conclusions:
 - “ Temperature range: 60°C
 - “ Test time: 6200 hours
 - “ Test conclusions: Be able to reach the MTBF of five years on the basis of 90% confidence level

Highly accelerated life test conducted by the authorized third-party

List of test results

Test type	Test conditions BMT 2000
Low temperature operating limit	-25° C
Low temperature destruct limit	<-50° C
High temperature operating limit	55° C
High temperature destruct limit	>100° C
Vibration operating limit	40Grms
Vibration destruct limit	>50Grms
Rapid temperature changing cycle	-24° C to 44° C @1~5cycle
Comprehensive test	-24° C to 50° C @1~5cycle, 32Grms-5 Grms

Remarks: 1. Operating limit: The sample can not work normally at this temperature point, yet when the temperature stress is weakened, it can still work normally;
2. Destruct limit: The sample can not work normally at this temperature point, yet when the temperature stress is weakened, it still can not work normally;

Be available to run and operate normally at 55°C high temperature

Be available to run and operate normally at -25°C low temperature

Be available to operate normally during vibrating in 40Grms

Mainstream processor model and specification

Model	QPI - GT/s	Memory speed - MT/s	Hyper-threading and Turbo technology	Qty. of core	Clock speed- GHz	LLC - MB
E5-2690 v3	9.6	2133	YES	12	2.6	30
E5-2680 v3				12	2.5	30
E5-2670 v3				12	2.3	30
E5-2660 v3				10	2.6	25
E5-2650 v3				10	2.3	25
E5-2640 v3	8	1866		8	2.6	20
E5-2630 v3				8	2.4	20
E5-2620 v3				6	2.4	15
E5-2609 v3	6.4	1600	NO	6	1.9	15
E5-2603 v3				6	1.6	15

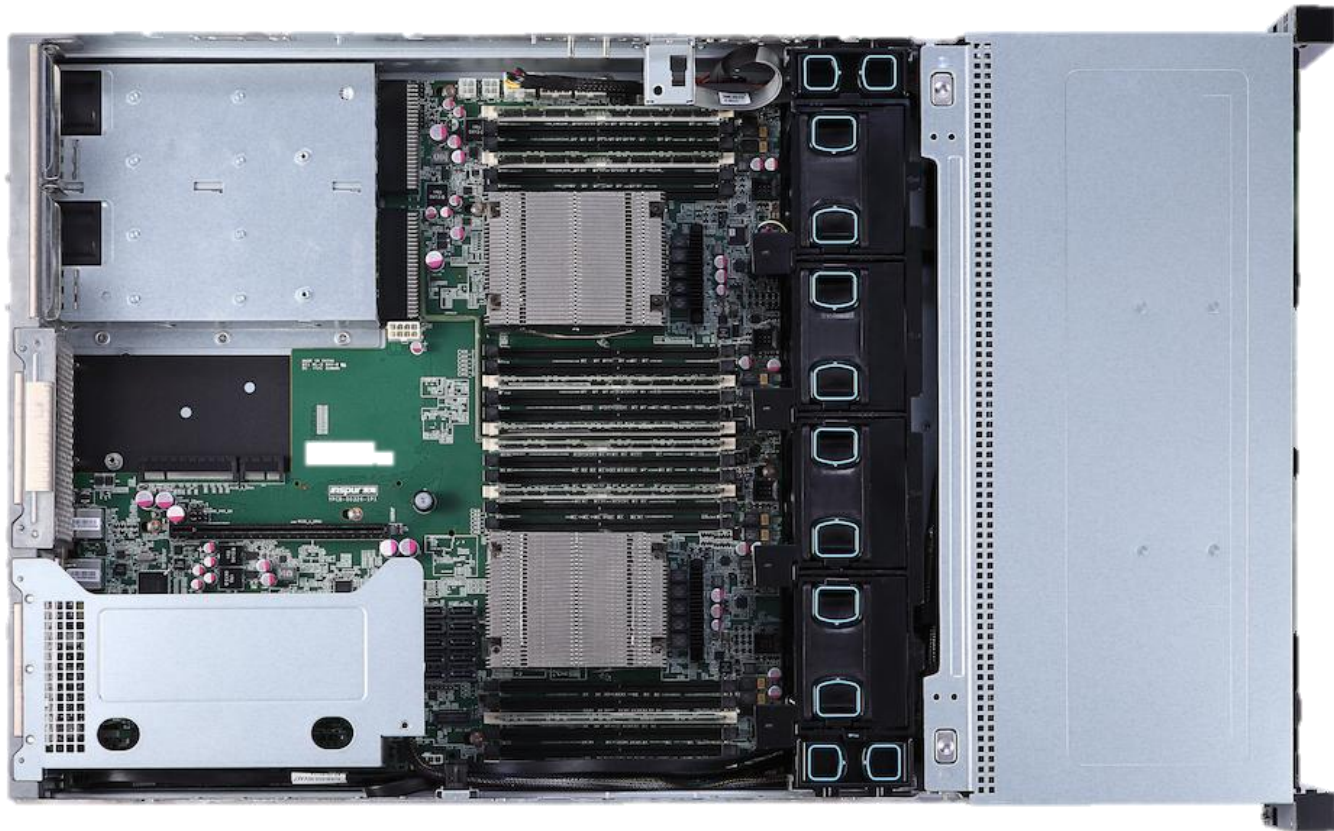
NF5280M4 Overview

Item	Description	Detailed	Future
CPU	CPU E5-2600V3 Up to 145W TDP		E5-2600V4
MEM	24 DIMM DDR4 (RDIMM/LRDIMM)		<i>NVDIMM</i>
Storage	Front: 24x 2.5/8x 3.5 Rear: 4x 2.5		12x 3.5/25x 2.5 12G SAS/RAID DC
PCI-E	Support 2x Riser, 1x NIC DC Up to 6x FH/2x GPU/4x PCI-X	Slot 0 x8 CPU0 Slot 1 x8/16 CPU0 Slot 2 x8 CPU0 Slot 3 x8 CPU1 Slot 4 x8/16 CPU1 Slot 5 x8 CPU1	8x FH
NIC	1Gb dual ports (I350 AM2 support SR-IOV)		I350/X540/82599
THERMAL	4x 80x38mm	1U air conduct for GPU conf.	<i>4x 80x56mm</i>
PSU	550/800/1200W, 1+1 Redundant, 80+ Pt AS/AA switch	CRPS, support NM3.0	
Other	支持TPM/传感模块		LCD

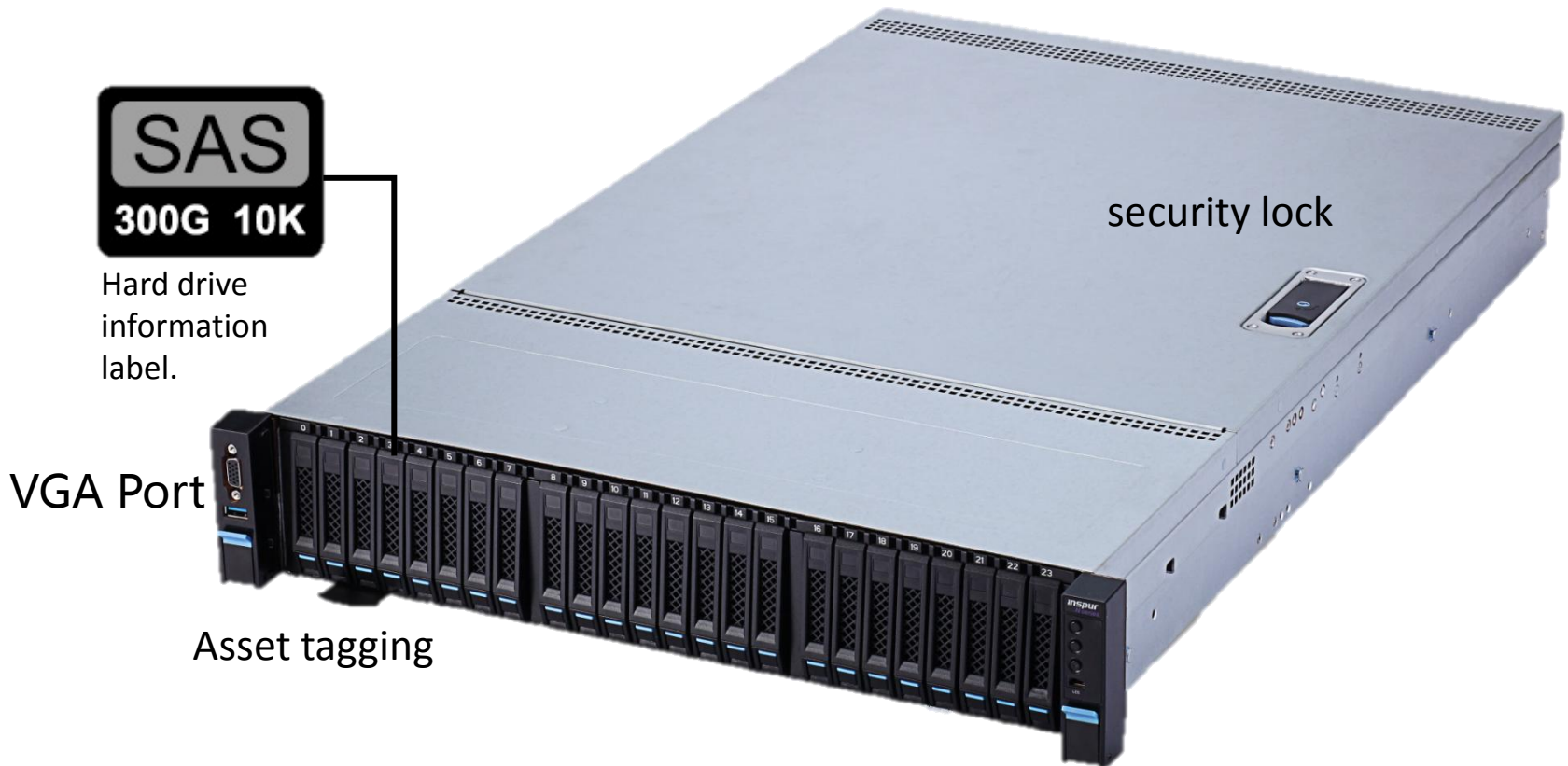


Гибкие варианты компоновки

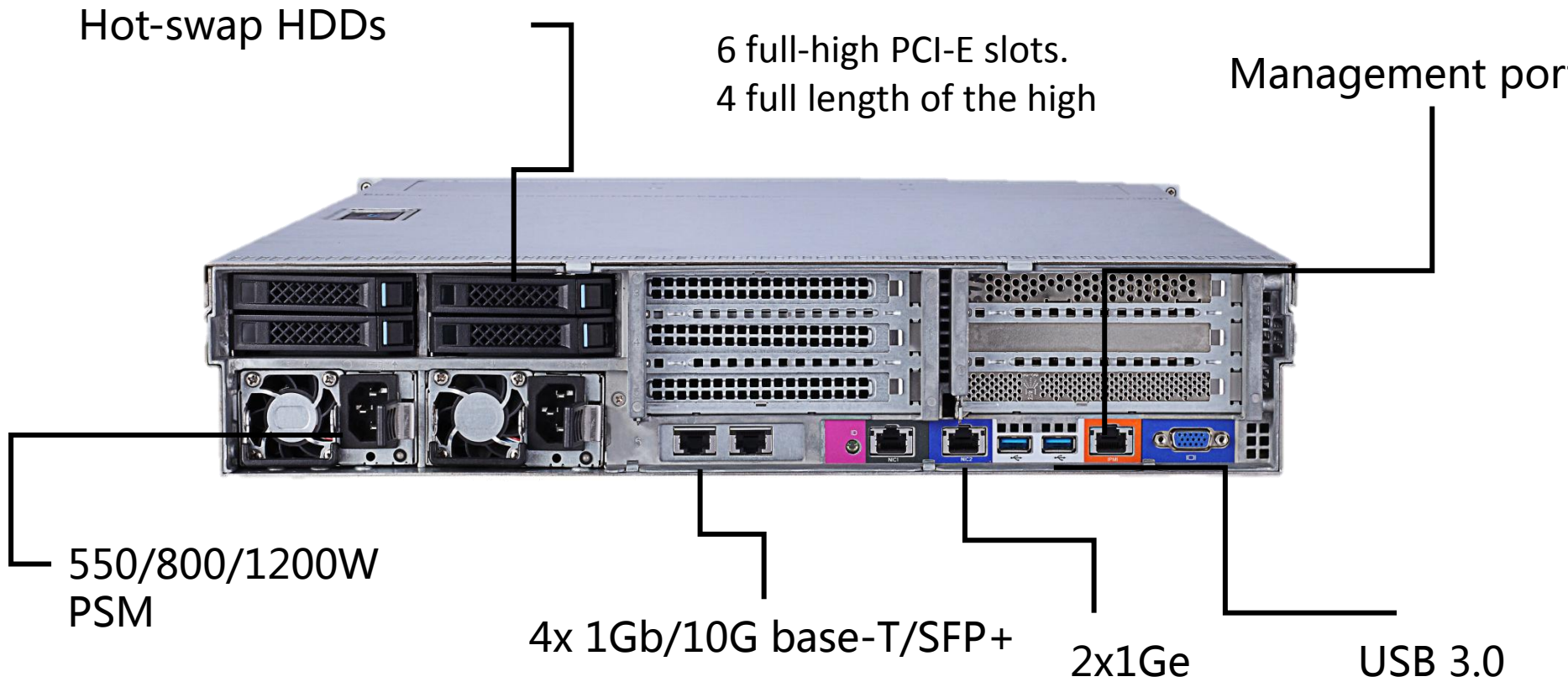
NF5280M4 Overview



NF5280M4 Overview

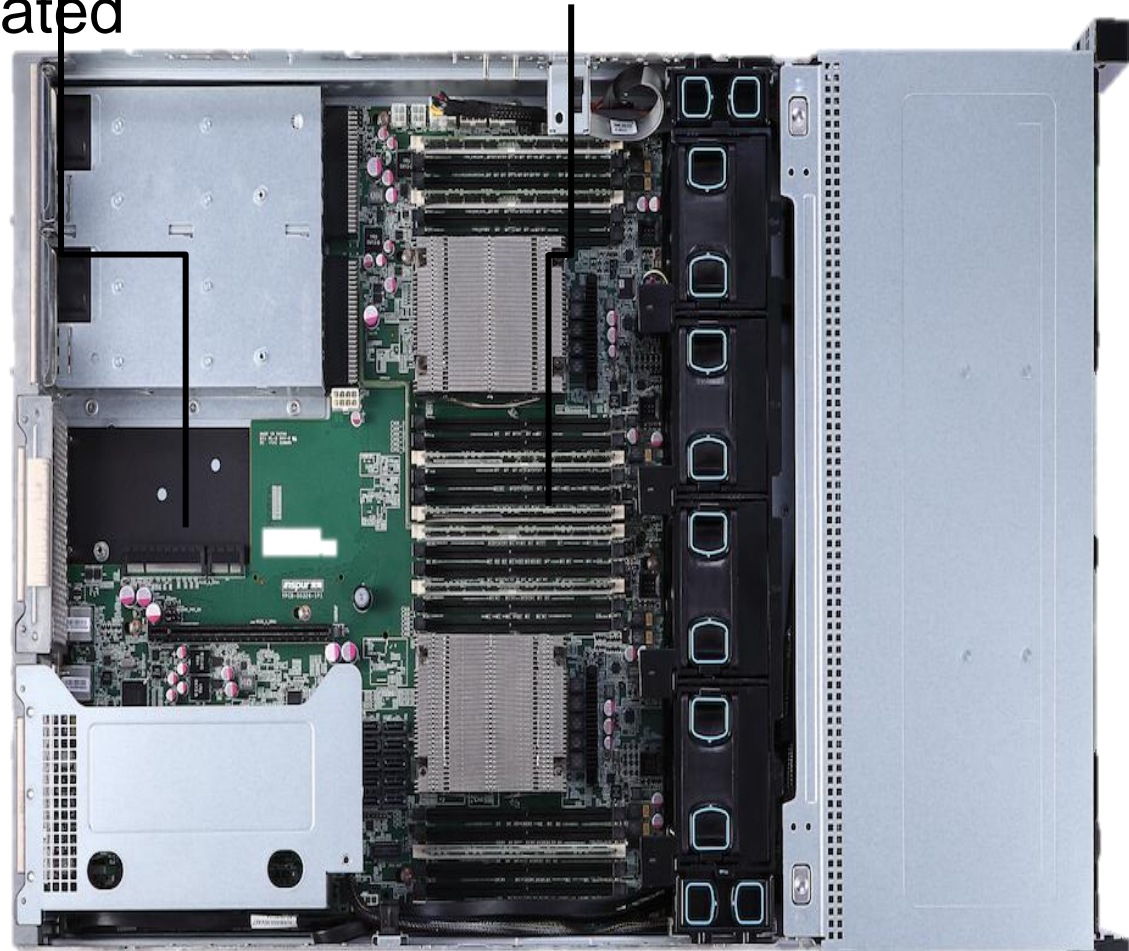
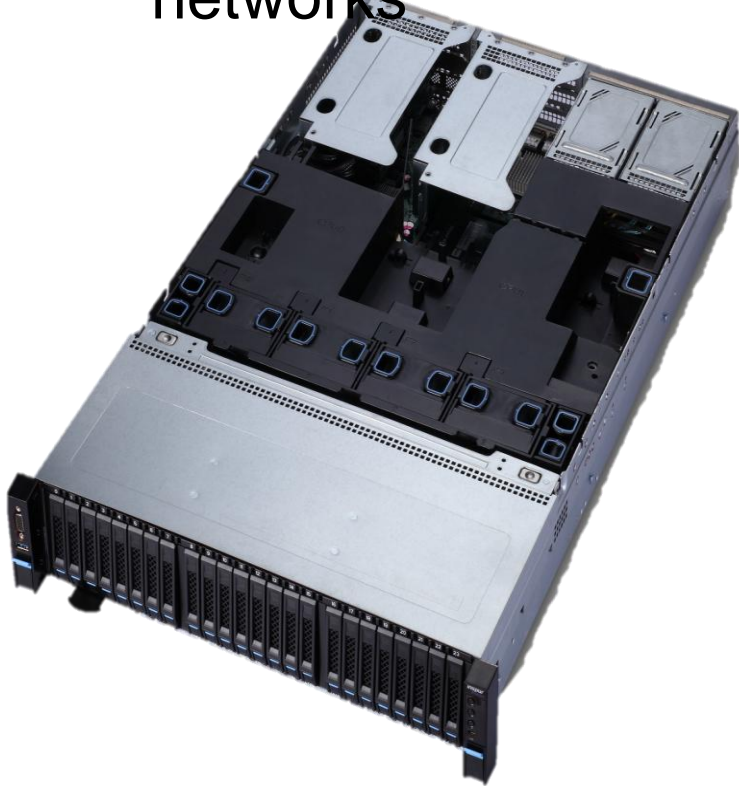


NF5280M4 Overview



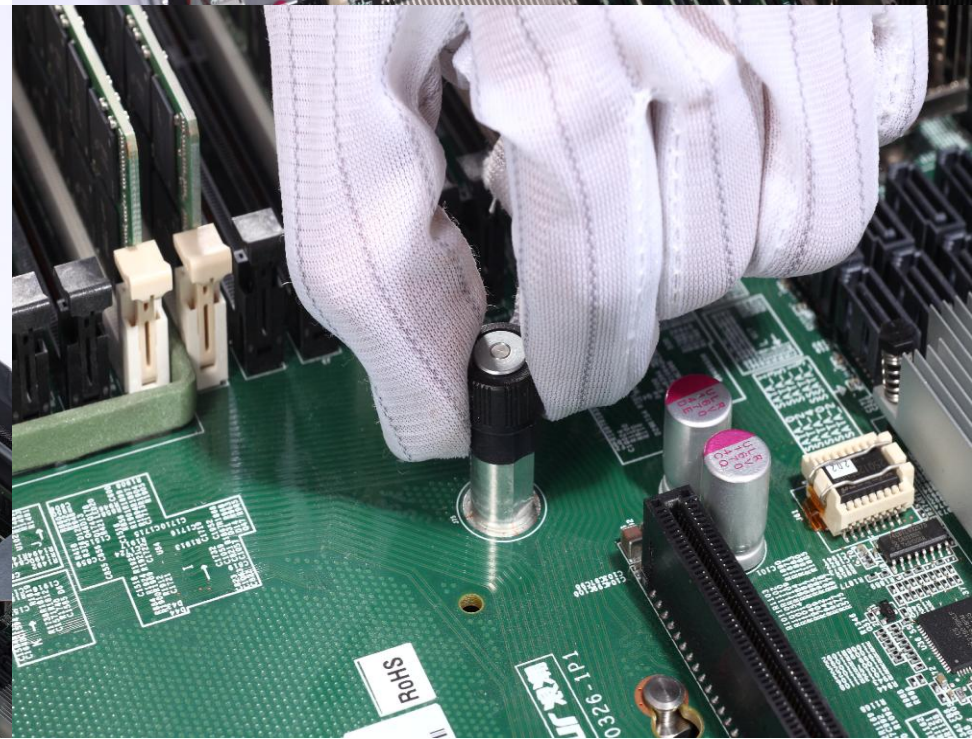
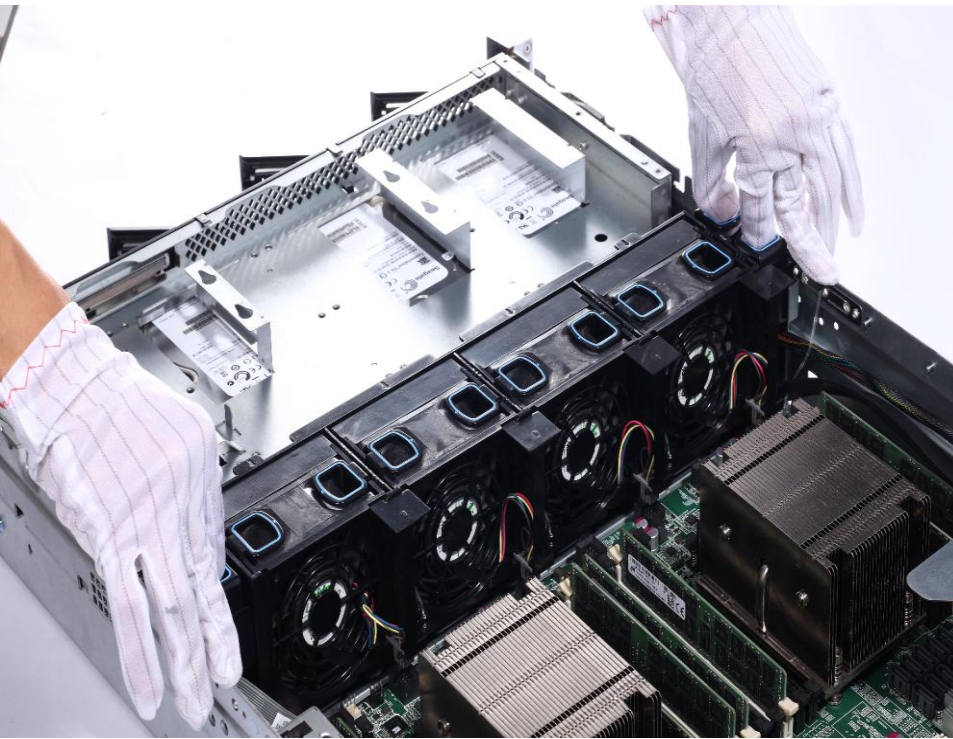
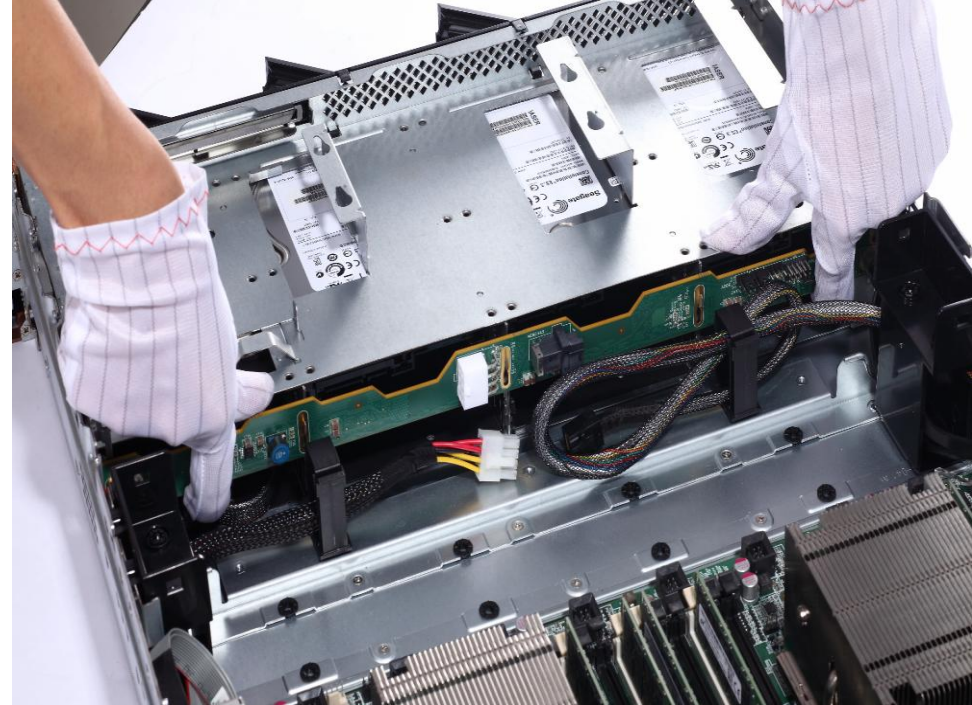
Supports Inspur F-LOM technology and is able to extend various integrated networks

24 DDR4 DIMMs



2*E5-2600V3 processors

All components that demand maintenance can be dismantled without using tools



THANK YOU!