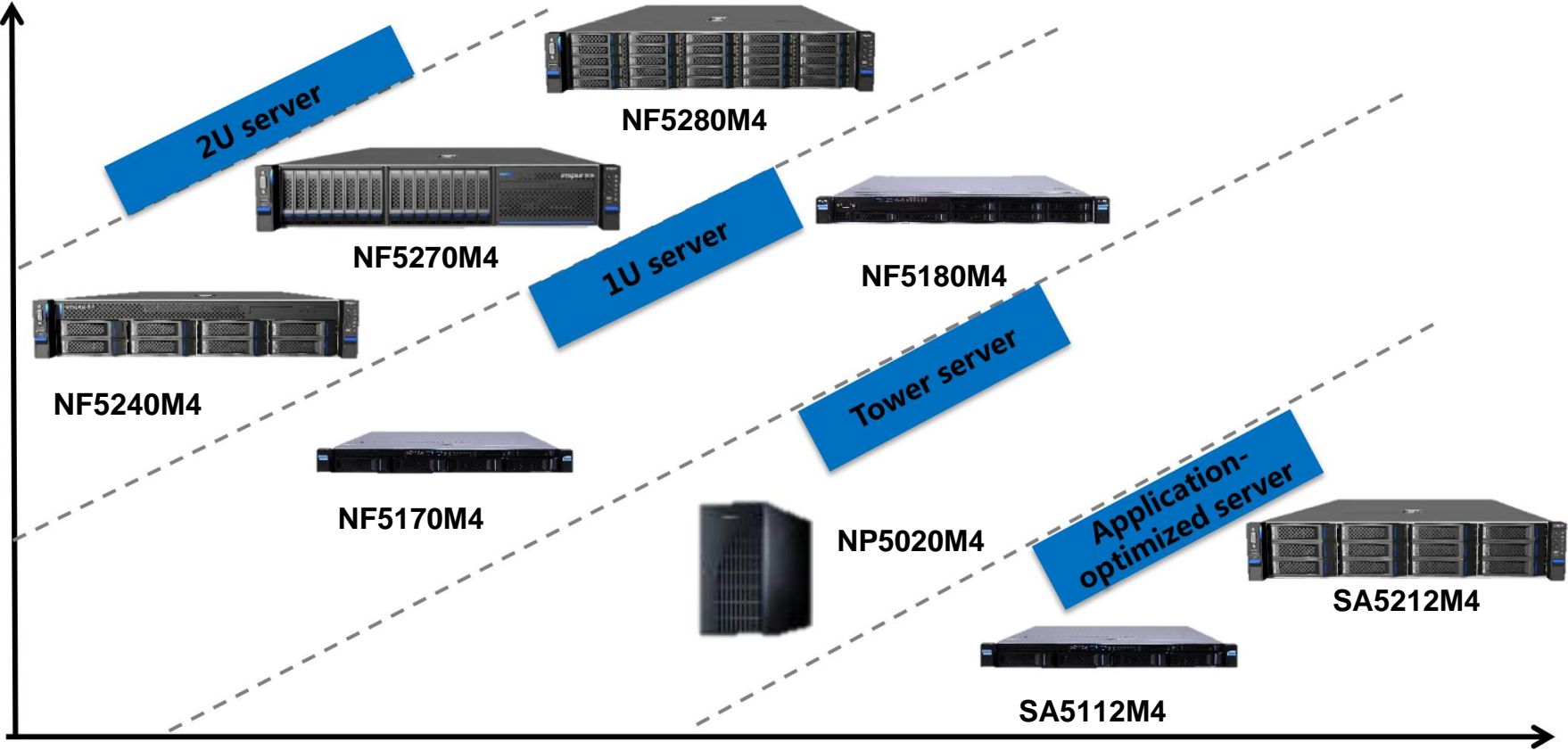


# Servers

## NF5270M4 & NF5280M4



# New line of 2-processor servers Inspur



# 2-processor 2U servers Inspur

## **NF5280 series:**

High technical  
characteristics,  
excellent  
extensibility,  
optimal  
practicality

## **NF5270 series:**

Excellent  
performance

## **SA5212 series:**

Server Storage System

## **NF5240 series:**

Entry-level server



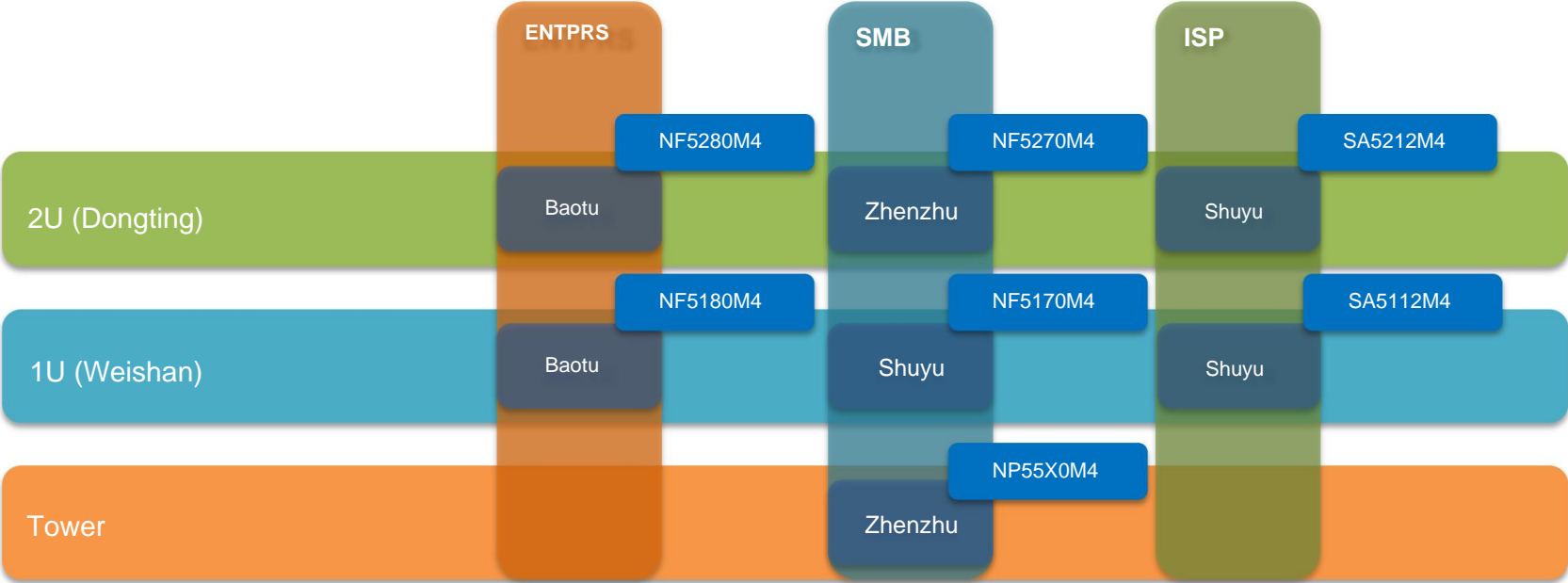
Database &  
virtualization

Big data  
application

**CDN &  
distributed  
storage**

Cost & Entry  
level

# Commonality of motherboards Grantley GP servers



# 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.

# Layout options



# NF5270M4

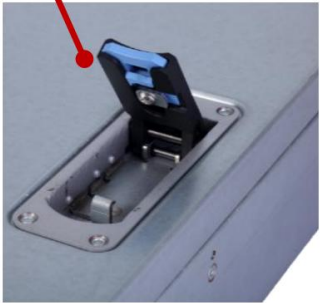


Front VGA port

Asset tag

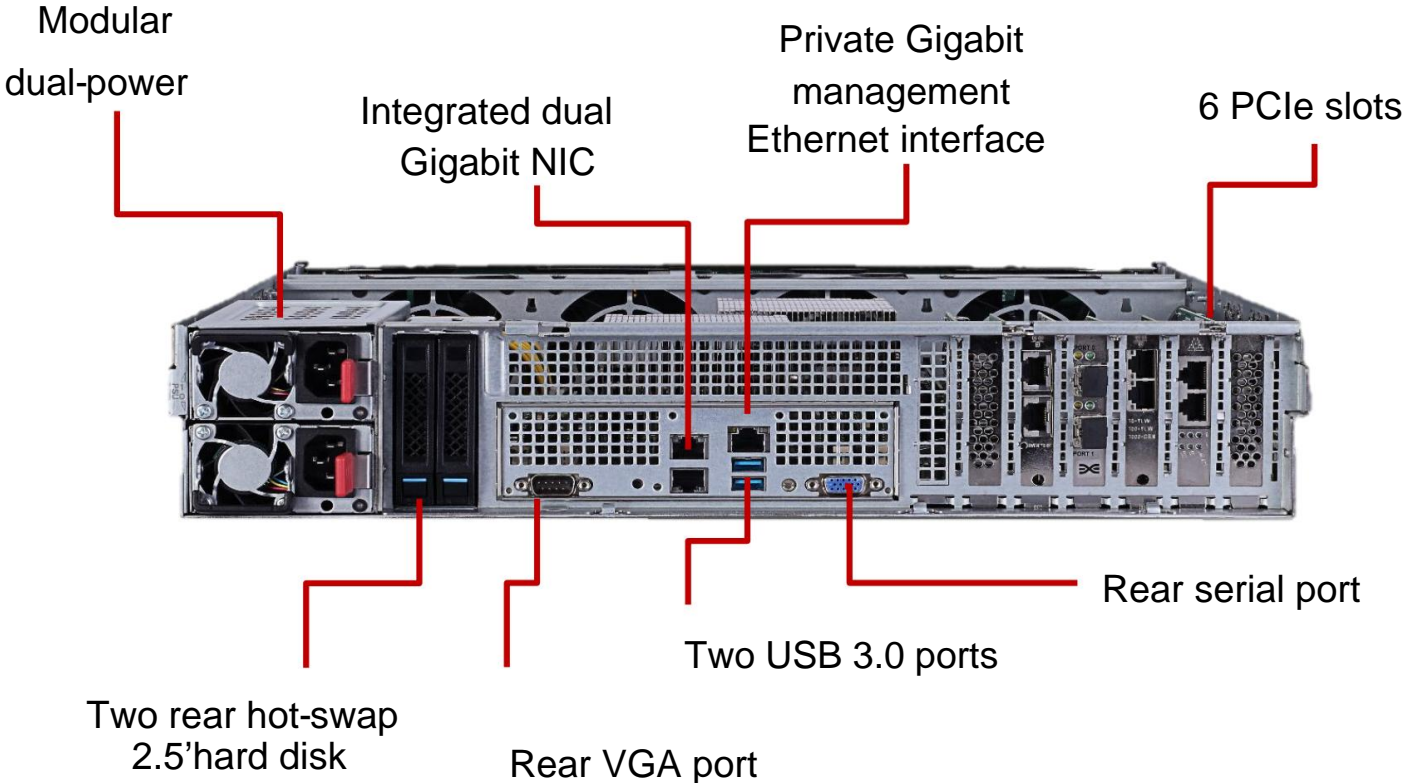


Front panel diagnosis indicator



Covered security lock

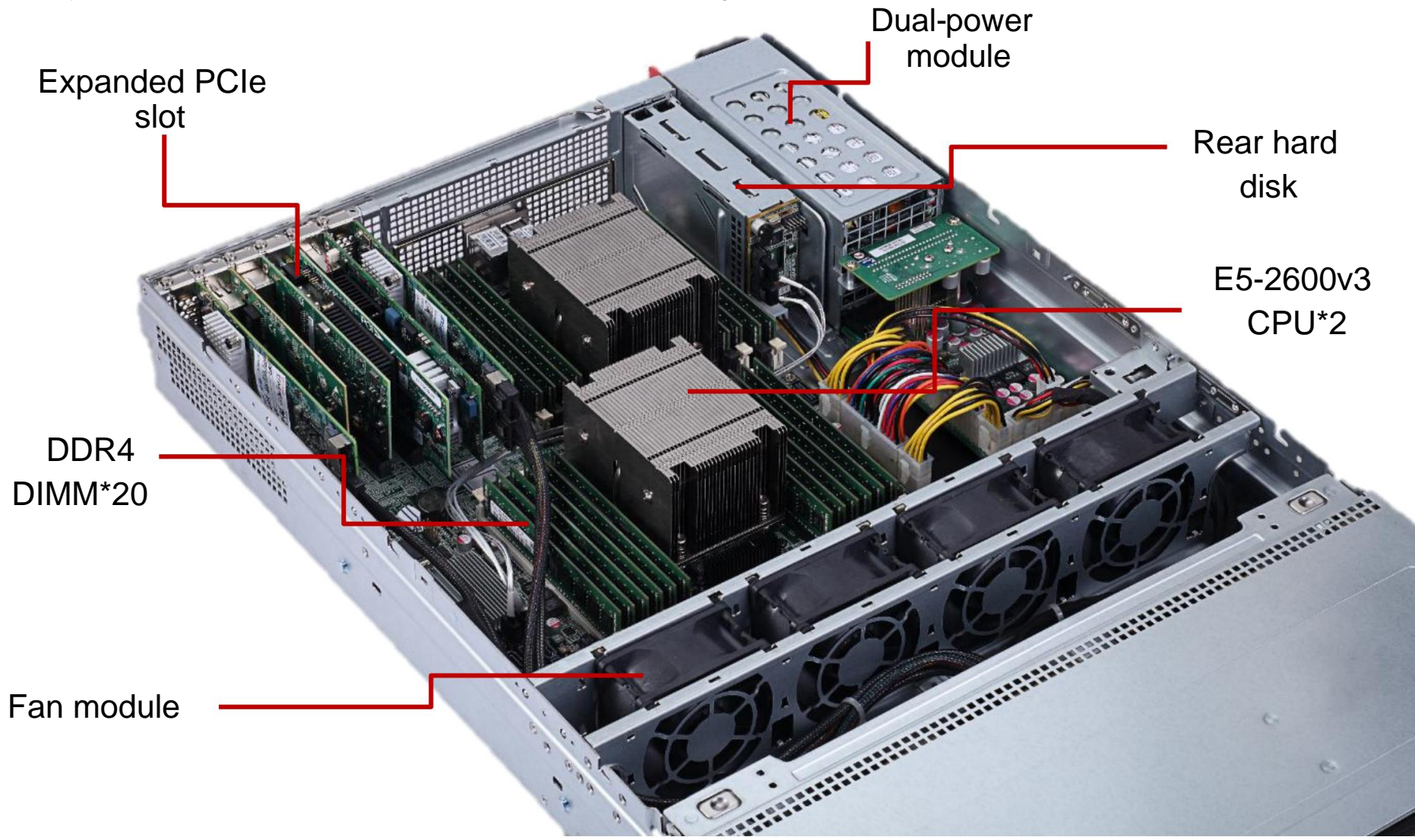
# NF5270M4





# 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

$\lambda =$	9040.47 FITs
MTTF=	110,614 Device Hours

12.62714 years

#### 90% Confidence Level Result

$\lambda =$	22718.17 FITs
MTTF=	44,018 Device Hours

5.024844 years

•

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 ~~work normally~~ <sup>21.62714 years</sup>;  
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; <sup>12.62714 years</sup>

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

Be available to run and  
operate normally at - 25°  
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

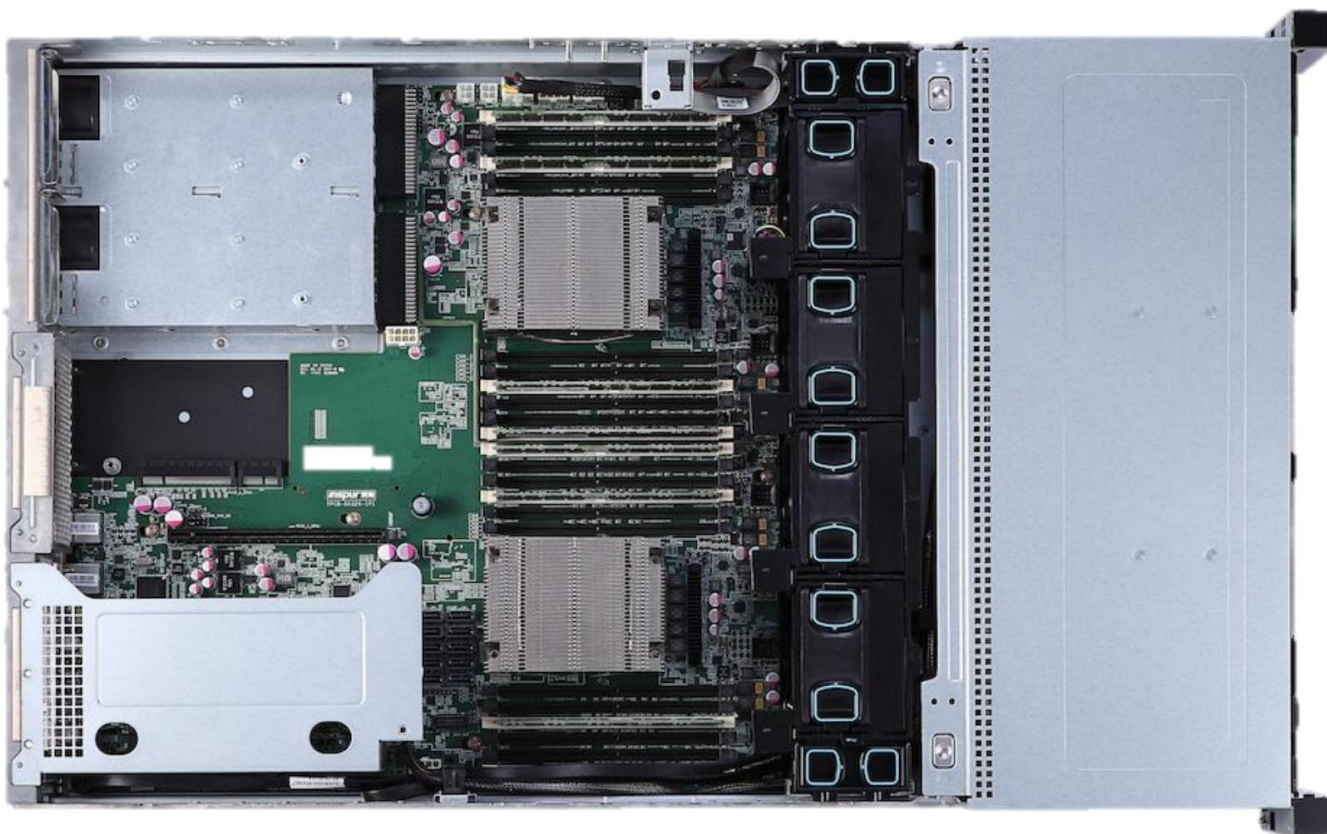
Item	Description	Detailed	Future
CPU	CPU E5-2600V3 Up to 145W TDP		E5-2600V4
MEM	24 DIMM DDR4 RDIMM/LRDIMM		NVDIMM
Storage	Front: 24x 2.5/8x 3.5 Rear: 4x 2.5		12x 3.5/25x 2.5 12G SAS/RAID DC
PCI-E	Support 2x Riser, 1x NIC DC Up to 6x FH/2x GPU/4x PCI-X	Slot 0 x8 CPU0 Slot 1 x8/16 CPU0 Slot 2 x8 CPU0 Slot 3 x8 CPU1 Slot 4 x8/16 CPU1 Slot 5 x8 CPU1	8x FH
NOTHING	1Gb dual ports (I350 AM2 support SR-IOV)		I350/X540/82599
THERMAL	4x 80x38mm	1U air conduct for GPU conf.	4x 80x56mm
PSU	550/800/1200W, 1+1 Redundant, 80+ Pt AS/AA switch	CRPS, support NM3.0	
Other	Support TPM/sensor module		LCD



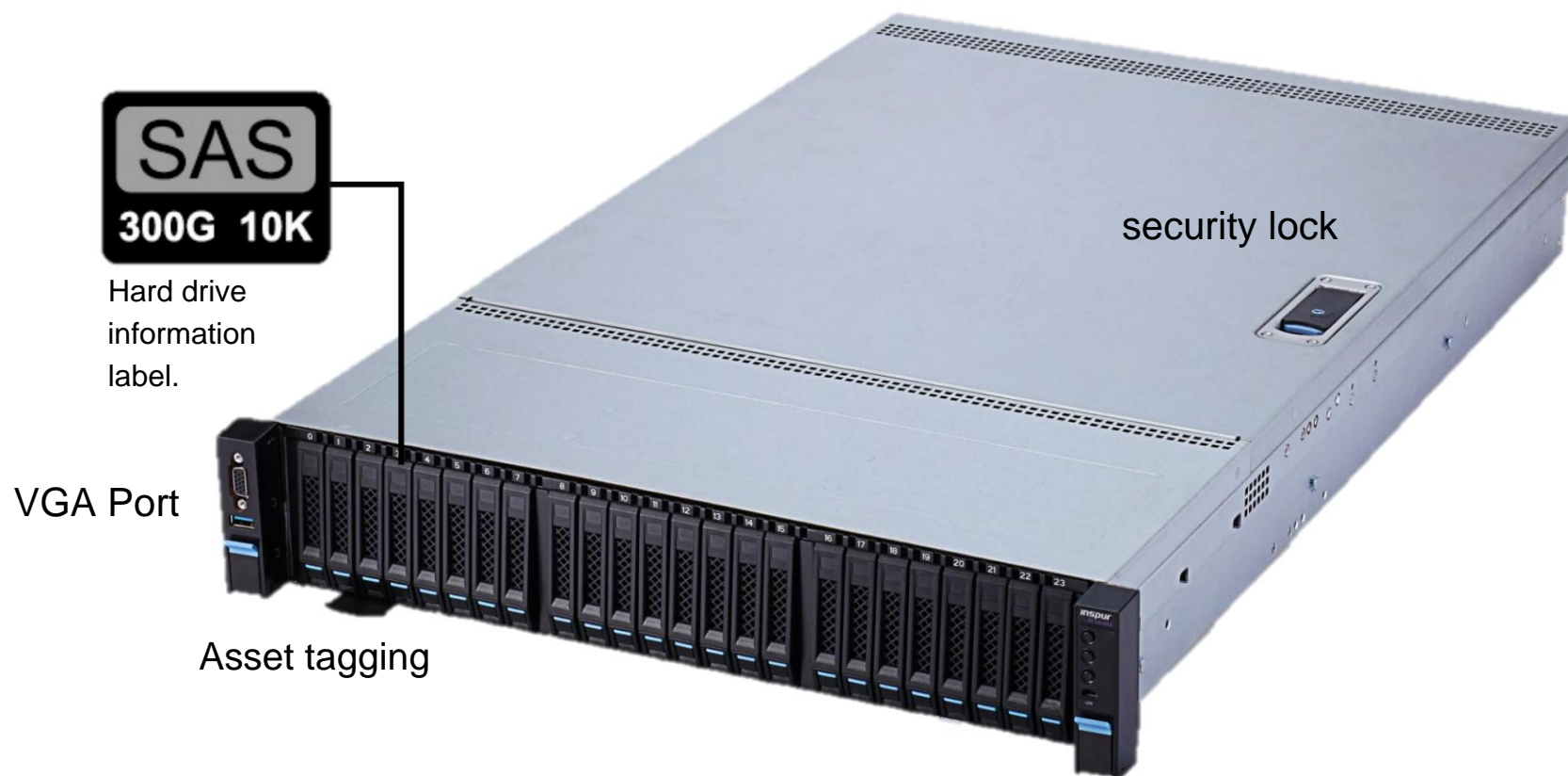


**Flexible layout options**

# NF5280M4 Overview

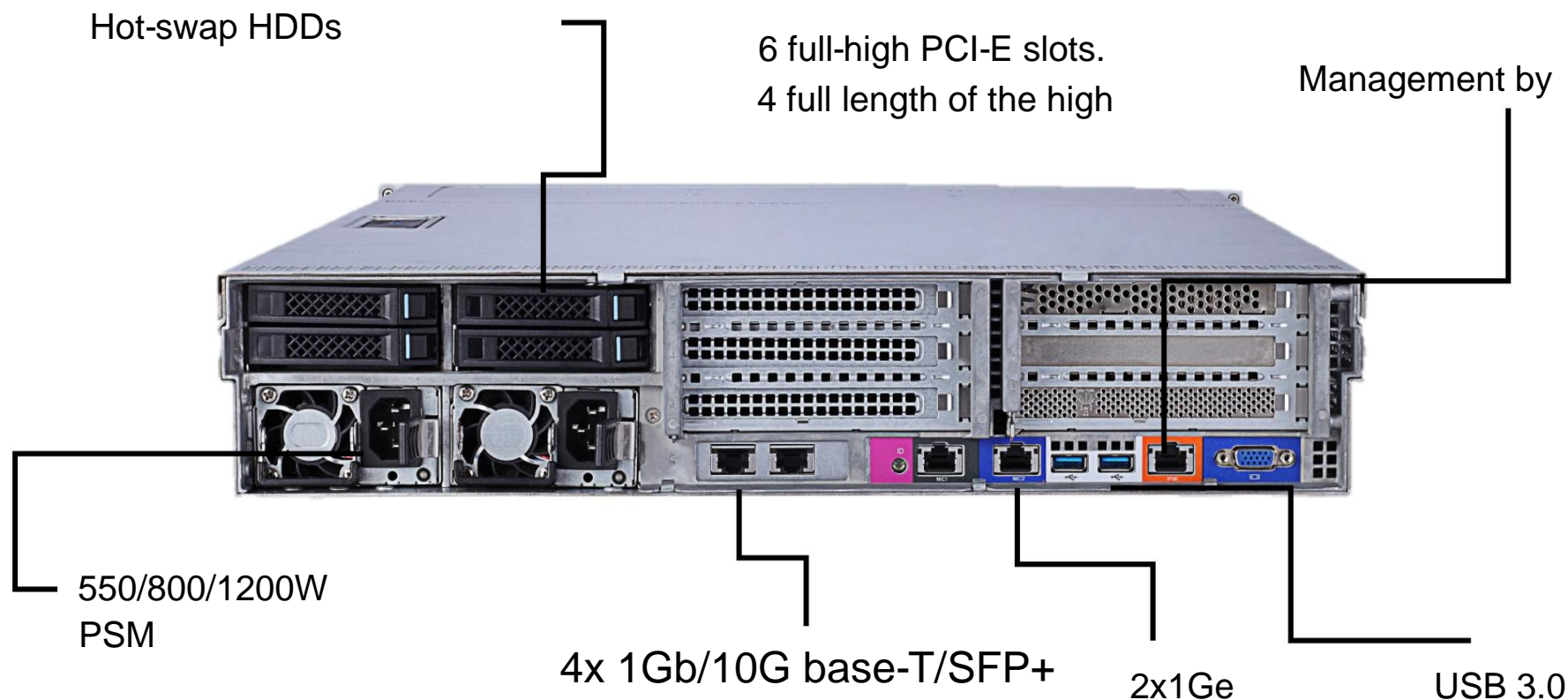


# NF5280M4 Overview



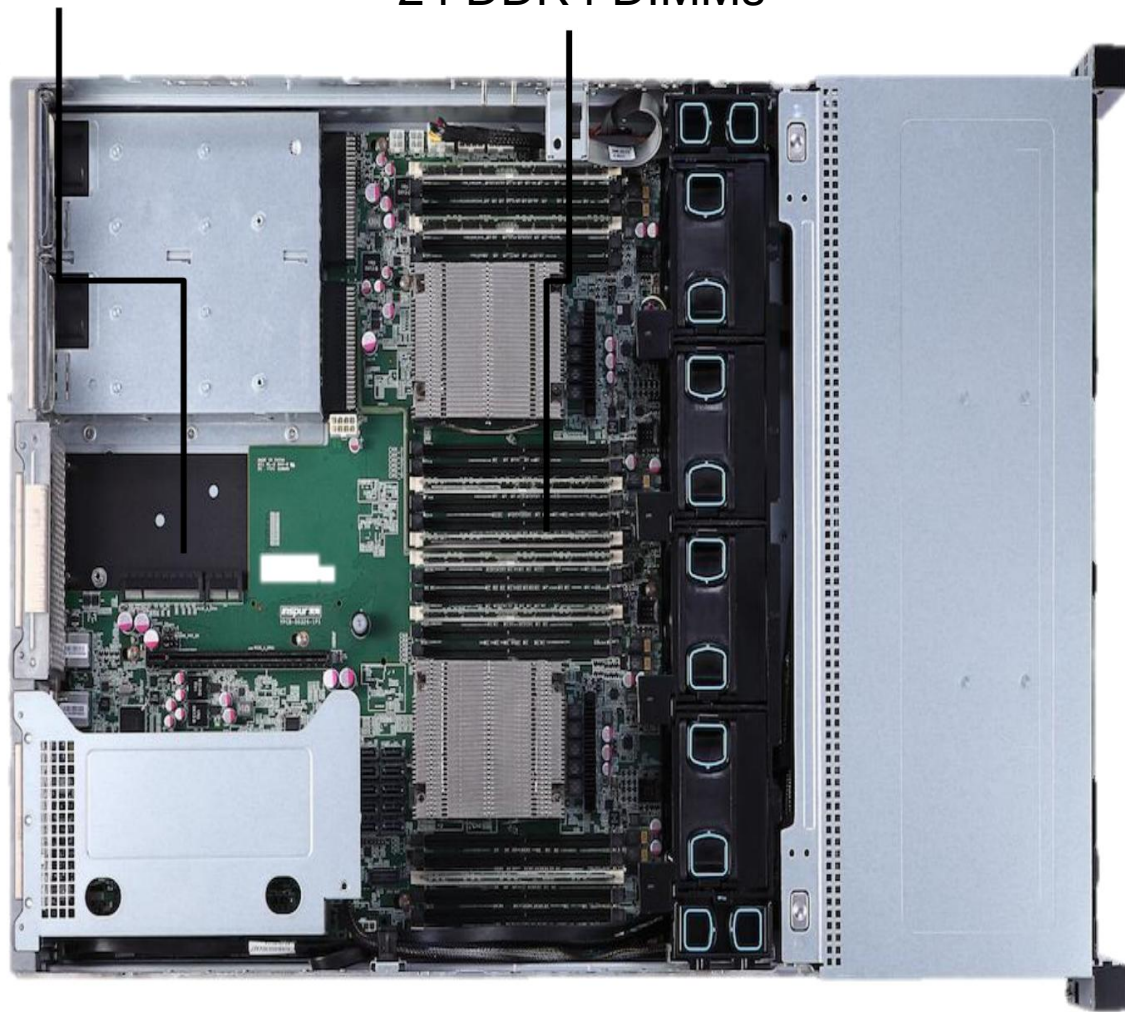


# NF5280M4 Overview



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

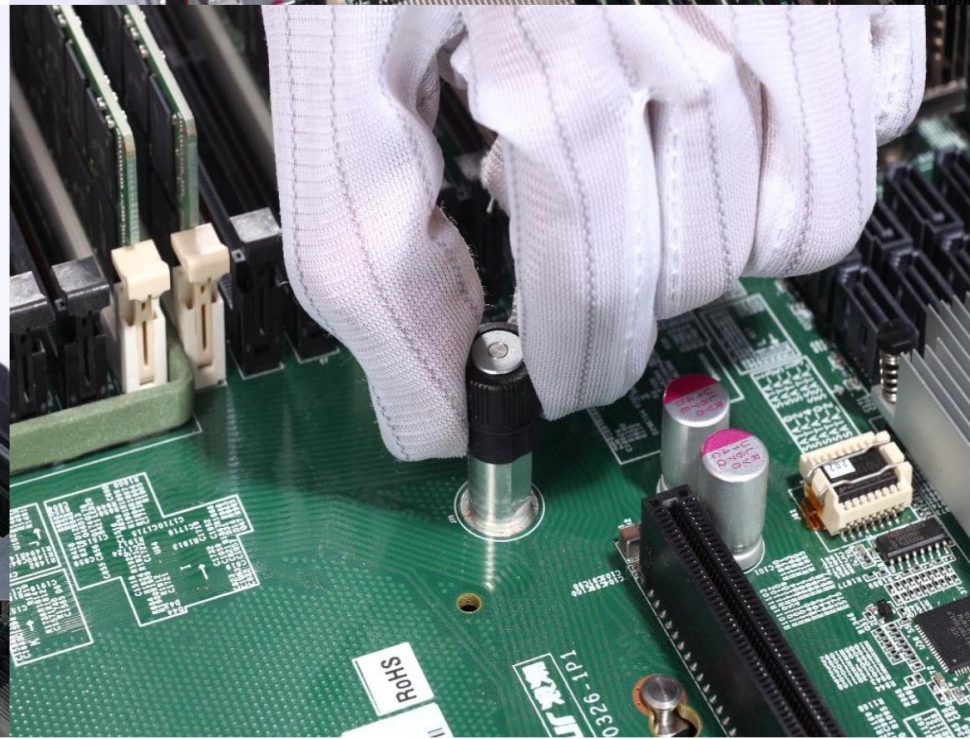
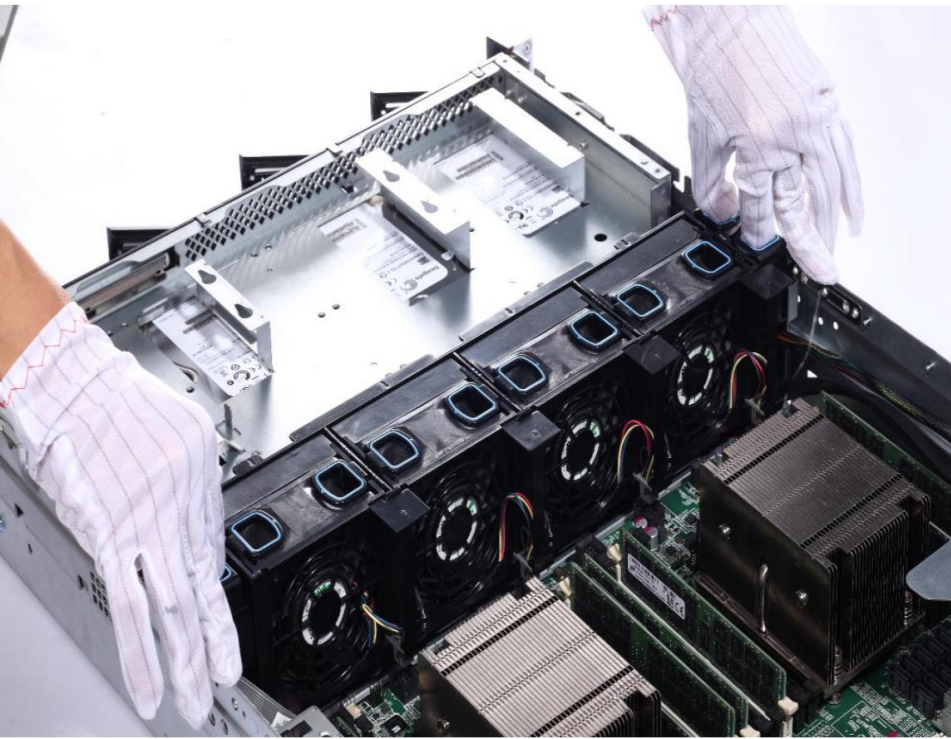
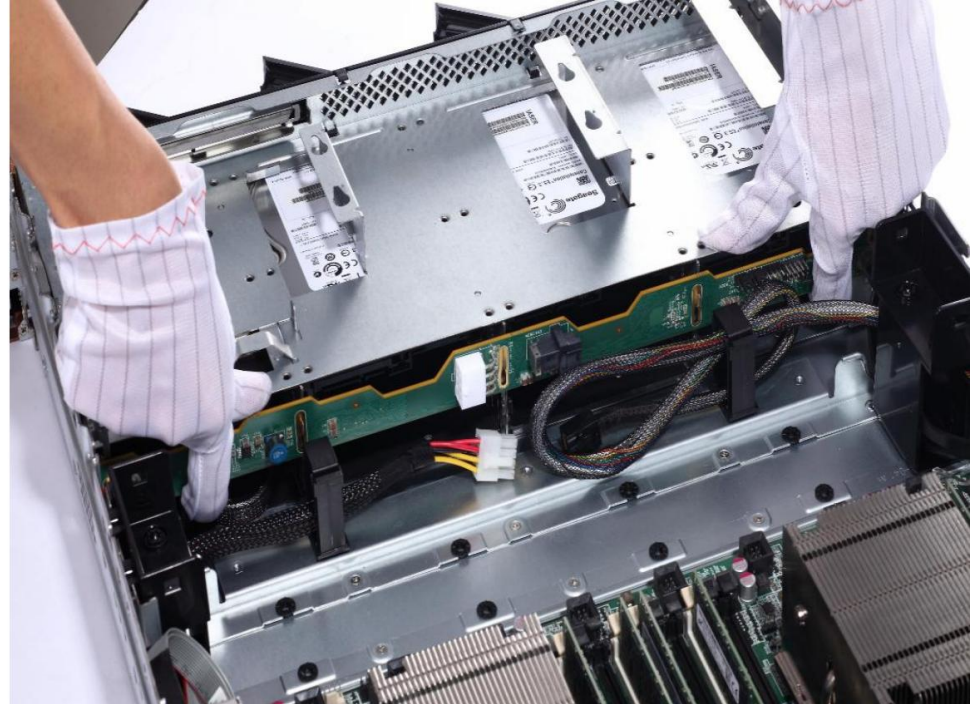
24 DDR4 DIMMs



2\*E5-2600V3 processors



All components that demand maintenance can be dismantled without using tools



THANK YOU!