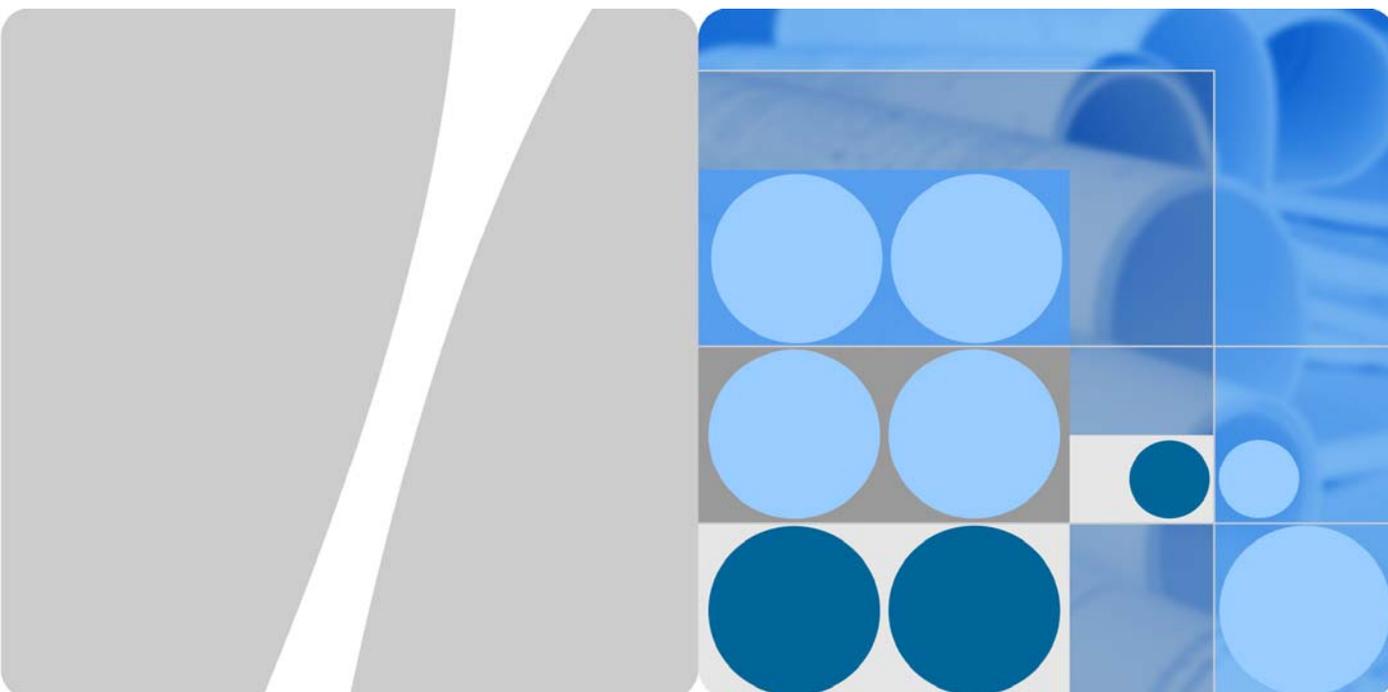


Doc. Code



Huawei eSight Full Ordering Guide

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Huawei Technologies Co., Ltd.

Address: Huawei Industrial Base
Bantian, Longgang
Shenzhen 518129
People's Republic of China

Website: <http://enterprise.huawei.com>

Email: support@huawei.com

Change History

Date	Version	Description	Author
25-Jun-2011	V1.0	Initial version completed.	Du Zhengxian (employee ID: 124610)
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1 Introduction

1.1 Overview

This document describes how to purchase eSight V200R001/V2R2C00, an enterprise management system.

This document covers the information about functional modules and hardware configuration of eSight.

Related knowledge about eSight and its features is necessary before reading this document.

1.2 Version Difference

V200R001/V2R2C00 is the second eSight version. Compared with eSight V2R1, the following functions are added.

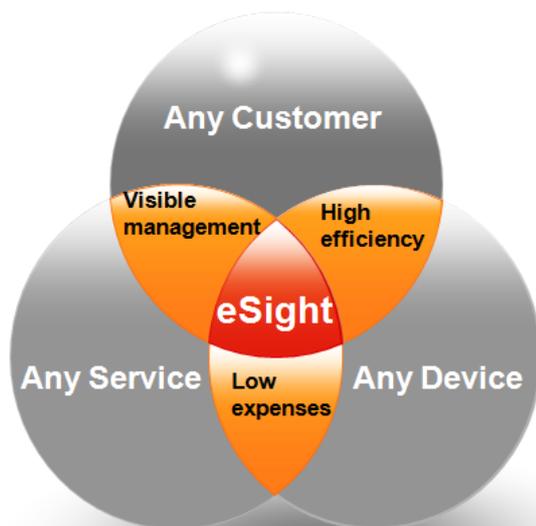
- Basic network management
Basic network management provides optimized intelligent configuration tools (used for batch configuration and template configuration) and IP views to improve network visibility. The optimized and new functions are not charged separately.
- WLAN network management
WLAN network management provides visible network management including WLAN service views (showing the relationship between ACs and APs) and AP location views. Each color represents a channel. A darker color represents a stronger signal. WLAN also provides the wizard configuration mode to reduce the difficulty of network maintenance and to improve the efficiency of configuration and service enabling.
- MPLS VPN network management
MPLS VPN network management supports end-to-end visibility and one-click MPLS VPN service fault diagnosis which help find root causes quickly, MPLS VPN service quality evaluation (SLA monitor), service-related performance monitoring, and service reports.
- Network quality evaluation
Network quality evaluation is oriented towards services. The evaluation system takes into consideration Huawei's rich experience in the area, filters out the complex NQA counters and presents the service quality directly making it much easier for customers to use.

2 Application Overview

eSight is a maintenance solution oriented towards the Datacom enterprise network market providing lightweight IP device management for enterprise network management. eSight aims to provide unified management for enterprise resources, services, and users. eSight V2R2 provides the following functions:

- Unified management for IT & IP and for third-party devices (including SNMP devices and customized third-party devices)
- Customized reports
- **MPLS VPN management**
- **WLAN network management**
- **Visible network quality evaluation (SLA)**
- Open platforms

2.1 eSight Highlights



•Any Customer

- **Multiple editions** suit different enterprise requirements.
- The open secondary development platform and APIs satisfy enterprises' requirements for integrating and developing personalized tools.

•Any Device

- Management of **IP and IT devices from multiple vendors** in a unified manner, reducing expenses.
- Batch deployment, improving O&M efficiency.

•Any Service

- Service-oriented **SLA** management, implementing visual demonstration of service quality.
- **WLAN** visual management, wizard-based service configuration.
- Unified monitoring of **MPLS VPN networks**, one-click fault diagnosis.

Any Customers Can Use eSight

- Three editions (compact, standard, and professional) are provided to meet different management and commercial requirements of enterprises.
- An open secondary development platform and API interfaces are provided for enterprises to customize new tools.

Any Devices Can Be Managed

- eSight can manage devices from different vendors. It provides functions such as device topology management, alarm management, and performance management, and pre-integrates mainstream devices from Huawei, Cisco, and HP. It also can customize basic information and management capabilities of devices from third-party vendors.
- eSight provides unified and efficient management, control, and maintenance over IP&IT devices, reducing costs and promoting the efficiency and competitiveness of enterprises.
- eSight supports the wizard function of WLAN configuration and intelligent configuration tools for deploying services and importing forms, allowing batch device management and quick network deployment.

Any Services Can Become Visual

- **Multiple topologies:** eSight provides physical topology, IP topology, service topology, and access topology. Based on service features, the service and network status can be displayed in real time through different perspectives.
- **IPSec VPN service management:** eSight supports monitoring management for IPSec VPN services and provides the service topology browsing function.
- **WLAN network management:** eSight provides management for Huawei access controllers (ACs) devices. It manages AC configurations to configure WLAN services. eSight supports restarting access points (APs) in batches, restoring AP factory settings in batches, and replacing APs. The service topology displays the logical connection between and detailed information about ACs, APs, end users, and illegal APs. It also has the ability to diagnose and locate faults. The location view displays the current hot locations and the radio frequency (RF) coverage, and marks the location of illegal interferences and conflicts.
- **MPLS network management:** eSight provides monitoring management for the MPLS VPN service and supports the service topology, service restoration, service alarm, performance management, one-click fault diagnosis, and backbone enterprise network protection. In addition, it also supports automatic detection, topology display, and service monitoring of the Full-mesh, Hub-Spoke and Hub&Spoke networks, and cross-domain VPN networks (including VPN-OptionA, VPN-Option B, and HoVPN).
- **SLA network quality management:** eSight sends diagnosis reports among multiple NEs or links to measure network performance. It also supports using SLA scores to indicate service quality, viewing historical SLA statistics, and generating SLA scores and indicator statistics reports.

3 Configuration

3.1 Configurations Steps

This chapter describes the eSight, configuration, quotation, and Unistar.

Product	eSight
Unistar	Data communications enterprise network

The configuration procedure is as follows:

- Configure basic network management.
Configure the application platform on a proper platform.
- Configure service components.
Configure optional functional components, which must be configured after the application platform is configured.
- Configure value-added tools
Configure value-added tools, which are provided only in China and can be configured independently.
- Configure auxiliary software and hardware.
Configure related servers, operating systems, and databases.

3.2 Basic Configurations

This document describes different configuration modes of the eSight network management application platform, which are mandatory for eSight network management. eSight provides the following editions: compact, standard, and professional. Select an edition that is proper for your site scenario. The eSight express edition is not quoted. If you want this edition, download it from <http://www.huawei.com/enterprise>.

Edition	Management Scale	Target Market	Main Functions	Edition Policy
Express	0 to 40 nodes	SOHO market	Resource, topology, and alarm	The express edition provides fewest functions and management capabilities and is not recommended.
Compact	0 to 60 nodes	SMB market	NE management, topology management, alarm management, configuration file management, and data dumping and backup Operating system: Windows	The compact edition provides a few functions and management capabilities and does not support capacity expansion. The compact edition is applicable to the SMB market.
Standard (Mainstream edition)	Unlimited	Medium- and large-scale network The standard edition supports flexible schemes, and components can be sold independently.	All functions of the compact edition, report management, smart configuration tool , user-defined device management, service management components (WLAN Manager, MPLS VPN Manager, and network quality evaluation component), and northbound alarm Operating system: Windows	Customers can deploy only the required functions at the initial phase and expand the management scale and service management components as required. The standard edition is recommended for all types of markets.
Professional	Unlimited	Super-large network where hierarchical management is required	All functions of the standard edition, hierarchical management, and secondary development Operating system: Windows and Linux	The professional edition is recommended for markets where hierarchical management is required.

eSight supports the Windows or Linux server based on the edition. Select a server based on the network scale and customer requirements.

The eSight deployment modes are as follows:

Edition	Windows 	Linux	Management Capability
Compact	Yes	No	Only 60 device licenses can be managed.
Standard	Yes	No	A maximum of 5000 device licenses can be managed.
Professional	Yes	Yes	Windows: A maximum of 5000 device licenses can be managed. Linux: A maximum of 20000 device licenses can be managed.

- The eSight Windows standard and professional editions manage a maximum of 5000 device licenses while the Linux professional edition manages a maximum of 20000 device licenses.
- When the eSight application platform and device licenses are configured, eSight can manage devices.

- Device management requires configurations only for the application platform type and device licenses. The number of device licenses equals the number of physical devices that need to be managed (both Huawei and third-party devices are counted). If WLAN management is required, the number of ACs must be included. In the S93 WLAN solution, the number of device licenses needed equals the number of AC licenses plus one (one device license is used to manage S93 devices).
- eSight device licenses are packed for quotation based on the network scale. The license quotation can be accumulated. For example, if you applied for 100 device licenses and later applied for 200 device licenses, you will obtain a management capability of 300 devices in total. In addition, the larger the scale is, the cheaper the license is. You are advised to take the expansion capacity into consideration in the early quotation.

The R2 standard and professional editions are based on the R1 editions with additional functions such as the functions provided by the **intelligent configuration tool** and **IP topology** management. The R2 editions greatly improve the **availability** and **efficiency** for network management.

Module		Mandatory	Optional (Multiple optional configuration items can be purchased to expand the capacity.)	
Basic network management	Standard edition (Recommended)	eSight AppBase-Standard (include 60 devices Lic)	eSight Standard NMS License-Incremental 25 Devices License	eSight Standard NMS License-Incremental 500 Devices License
			eSight Standard NMS License-Incremental 50 Devices License	eSight Standard NMS License-Incremental 1000 Devices License
			eSight Standard NMS License-Incremental 100 Devices License	eSight Standard NMS License-Incremental 2000 Devices License
	Professional edition	eSight AppBase-Professional (include 60 devices Lic)	eSight Standard NMS License-Incremental 200 Devices License	eSight Standard NMS License-Incremental 5000 Devices License
			eSight Standard NMS License-Incremental 300 Devices License	
			eSight Professional NMS License-Incremental 50 Devices License	eSight Professional NMS License-Incremental 500 Devices License
Compact edition	eSight AppBase-Compact (include 60 devices Lic)	eSight Professional NMS License-Incremental 100 Devices License	eSight Professional NMS License-Incremental 1000 Devices License	
		eSight Professional NMS License-Incremental 200 Devices License	eSight Professional NMS License-Incremental 2000 Devices License	
		eSight Professional NMS License-Incremental 300 Devices License	eSight Professional NMS License-Incremental 5000 Devices License	
		The capacity cannot be expanded.		

The following components are optional for eSight network management.

Module	Mandatory	Optional	Optional Description
Optional components	Report management	eSight Smart Reporter	eSight Smart Reporter-Special Services-customize template development (per template) Note: If the default report design templates cannot meet customers' requirements, configure this item. Huawei provides the report template customization service.
	Northbound	SNMP Northbound Manager	There is no optional configuration item. eSight provides SNMP northbound alarm interfaces to connect to the upper-level OSS.

It is recommended that Smart Reporter be configured with default values outside China. eSight Smart Reporter-Special Services-customize template development (per template) is a special service. To customize reporter templates, contact marketing representative Du Zhengxian (employee ID: 00124610) before the quotation.

3.3 Service Component

eSight service components refer to service management components that are closely related to network management. All service management components are optional, and are configured on a component platform with a management device license.

Before configuring the service management components, ensure that the basic network management platform of the standard or professional edition has been configured. MPLS network management and network quality evaluation are new functions provided by eSight V2R2. WLAN network management is greatly enhanced in R2.

Module	Mandatory	Optional		
Service components	IPSec VPN Manager	eSight IPSec VPN License-Incremental 50 Devices License	eSight IPSec VPN License-Incremental 100 Devices License	
		eSight IPSec VPN Manager(include 60 Devices License)	eSight IPSec VPN License-Incremental 200 Devices License	eSight IPSec VPN License-Incremental 500 Devices License
		eSight IPSec VPN License-Incremental 1000 Devices License	Add optional licenses to expand the management capacity for IPSec VPN Manager as required.	
	WLAN Manager	eSight WLAN Manager	eSight WLAN License-Incremental 50 APs License	eSight WLAN License-Incremental 100 APs License
			eSight WLAN License-Incremental 200 APs License	eSight WLAN License-Incremental 500 APs License
			eSight WLAN License-Incremental 1000 APs License	eSight WLAN License-Incremental 2000 APs License
			eSight WLAN License-Incremental 5000 APs License	Add optional licenses to expand the management capacity for WLAN Manager based on the number of APs to be managed.
	MPLS VPN Manager	eSight MPLS VPN manager(include 60 Devices License)	eSight MPLS VPN License-Incremental 50 Devices License	eSight MPLS VPN License-Incremental 100 Devices License
			eSight MPLS VPN License-Incremental 200 Devices License	eSight MPLS VPN License-Incremental 500 Devices License
			eSight MPLS VPN License-Incremental 1000 Devices License	eSight MPLS VPN License-Unlimited Devices License
Network Quality Evaluation	SLA Manager	There is no optional item. In cooperation with the NQA function, SLA Manager monitors the end-to-end network quality and evaluates the visible network quality.		

3.3.1 IPSec VPN Manager

The eSight IPSec VPN manager does not support service configuration, and supports IPSec VPN management for devices such as S93 and AR G3. The following items marked * are mandatory.

88030WVS	eSight IPSec VPN Manager(include 60 Devices License) *
88030WVT	eSight IPSec VPN License-Incremental 50 Devices License
88030WVU	eSight IPSec VPN License-Incremental 100 Devices License
88030WVV	eSight IPSec VPN License-Incremental 200 Devices License
88030WW	eSight IPSec VPN License-Incremental 500 Devices License
88030WVX	eSight IPSec VPN License-Incremental 1000 Devices License

The number of eSight IPsec VPN manager device licenses equals the number of devices in the IPsec VPN management domain.

If you are not familiar with the IPsec VPN management domain, count the devices managed by a license based on the number of devices supporting the IPsec VPN function.

3.3.2 WLAN Manager

The eSight WLAN manager provides management solutions only for S93 and WS6603. It manages AP through AC. The following items marked * are mandatory.

88030WVJ	eSight WLAN Manager *
88030WVK	eSight WLAN License-Incremental 50 APs License
88030WVL	eSight WLAN License-Incremental 100 APs License
88030WVM	eSight WLAN License-Incremental 200 APs License
88030WVN	eSight WLAN License-Incremental 500 APs License
88030WVP	eSight WLAN License-Incremental 1000 APs License
88030WVQ	eSight WLAN License-Incremental 2000 APs License
88030WVR	eSight WLAN License-Incremental 5000 APs License

The number of WLAN manager licenses equals to number of APs, not the number of ACs. The number of ACs is included in the number of application platform licenses. The number of AP licenses can be accumulated. A larger number of licenses corresponds to a more inexpensive price.

3.3.3 MPLS VPN Manager

The eSight MPLS VPN manager manages and monitors the MPLS VPN services running on Huawei and third-party devices. The configuration functions of MPLS VPN can be configured using the intelligent configuration tool.

The following items marked * are mandatory.

88031BMY	eSight MPLS VPN Manager(include 60 Devices License) *
88031BNA	eSight MPLS VPN License-Incremental 50 Devices License

88031BNB	eSight MPLS VPN License-Incremental 100 Devices License
88031BNC	eSight MPLS VPN License-Incremental 200 Devices License
88031BND	eSight MPLS VPN License-Incremental 500 Devices License
88031BNE	eSight MPLS VPN License-Incremental 1000 Devices License
88031BNF	eSight MPLS VPN License-Unlimited Devices License

The number of MPLS VPN manger device licenses equals to total number of PEs and CEs involved in MPLS VPN services. If multiple MPLS VPN services are running on a device, the number of licenses is recorded as 1.

3.3.4 SLA Manager

eSight sends diagnosis reports among multiple NEs or links to measure network performance. It also supports using SLA scores to indicate service quality, viewing historical SLA statistics, and generating SLA scores and indicator statistics reports. The following items marked * are mandatory.

88031BMX	eSight SLA Manager *
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3.4 Auxiliary SOFTWARE and Hardware Configuration

Third-party software and hardware such as servers, operating systems, and databases are sold with eSight. Third-party software and hardware have been verified by Huawei. It is recommended that Huawei servers, operating systems, and databases be configured when third-party software is configured. In addition, the bundle quotation of the database and the standard edition is no longer applicable to eSight V2R2. Use the SQL Server database or MySQL based on your site scenario.

3.4.1 Database Configuration

Operating system	Windows 	Linux	Database Configuration
Version			
Compact	MySQL 5.5	No	No
Standard	MySQL 5.5, SQL Server 2008 R2	No	Yes

	Standard		
Professional	MySQL 5.5 SQL, SQL Server 2008 R2 Standard	Oracle 11g standard	Yes

Oracle database is applicable only to the Linux operating system at present, the number of Oracle databases that need to be configured in the Linux operating system is calculated as follows:

$$\text{Number of Oracle databases} = \text{Number of CPU servers} \times \text{Number of CPU cores} \times 0.5$$

Database part description:

05330135	Application Data Management Software Package(1-11S), 1 Year Standard Product Services	An Oracle database is not recommended.
05210243	Database Software,MySQL,English,5.5,Windows XP,Windows 7,Windows 2008,32bit,Paper License,Media Kit,English Document,1year standard service	An MySQL database that manages a maximum of 2000 device licenses is recommended.
05210250	Microsoft SQL Server 2008 R2, Chinese, Standard Edition,5 CAL, for Windows,64bit, SQL2008R2 Std OEM COA Lic, SQL2008R2 CD, No Doc, Without Product Services	Microsoft SQL Server that manages a maximum of 2000 to 5000 device licenses is recommended.

3.4.2 Operating System Configuration

Edition	Windows 	Linux	Operating System Configuration
Compact	WIN 7 (32 Bits)	No	Operating systems have been installed in desktops sold by Huawei by default.
Standard	Windows Server 2008R2 standard (64 Bits)	No	Yes
Professional	Windows Server 2008R2 standard (64 Bits)	SuSE 11 Linux SP1	Yes

Operating system part description:

05200134	Microsoft Windows Server 2008 R2,English Version,Standard,64bit,WinSvr2008 R2 Sta OEM COA Lic,5 CAL,Win Svr 2008 R2 Sta DVD,With EULA,No Doc,Without Product Services	Windows operating system of the English version
05200128	Microsoft Windows Server 2008 R2,Chinese,Standard,5 CAL,64bit,WinSvr2008 R2 Sta OEM COA Lic,Win Svr 2008 R2 Sta CD,No Doc,Without Product Services	Windows operating system of the Chinese version
05200140	Novell SuSE Linux Enterprise Server 11.0,Multi-language,Paper License,for x86 32/64bits,DVD Media Kit(64bit),English Doc.,1 Yr 7*24 Product Services,Limited in 8 CPUs /8 Blades	Linux operating system

3.4.3 Server Configuration

- Huawei provides only several types of servers. Refer to the following table for self-configuration.

Edition	Number of Managed NEs	Hardware Configuration	Recommended Server	Operating System + Database
Express Compact	60	CPU: dual-core 2.0 GHz or above Memory: 2 GB Hard disk: 20 GB	Desktop-I3 2100 or above - 2G-320G or above	Windows 7 (32-bit) + MySQL 5.5 (delivered with the product)
Standard Professional	0-200	CPU: dual-core 2.0 GHz or above Memory: 4 GB Hard disk: 40 GB Note: A PC server is recommended.	IBM X3650M3-Xeo quar-core E5506 2.13 GHz or above-4G(1 x 4G)-2 x 300 GB	Windows Server 2008 R2 (64-bit) + MySQL 5.5 or Windows Server 2008 R2 (64-bit) + Microsoft SQL Server 2008 R2 Standard
	200-500	CPU: 2 x dual-core 2 GHz or above Memory: 4 GB Hard disk: 60 GB Note: A PC server is recommended.		
	500-2000	CPU: 2 x quar-core 2 GHz or above Memory: 8 GB Hard disk: 120 GB Note: A PC server is recommended.	IBM X3650M3-2*Xeon quar-core E5506 2.13 GHz or above -8G(2 x 4G)-3 x 300 GB	
	2000-5000	CPU: 2 x quar-core 2 GHz or above Memory: 16 GB Hard disk: 250 GB Note: A PC server is recommended.	IBM X3650M3-2*Xeon quar-core E5620 2.4 GHz or above -16G(2 x 8 G)-3 x 300 GB	
Professional	5000-20000	CPU: 4 x quar-core 2 GHz or above Memory: 32 GB Hard disk: 320 GB Note: A PC server is recommended.	IBMX3850X5-4*eight core E7-4820 2.0 GHz or above - 32G(8 x 4 G)-8 x 300 GB	SUSE Linux 11 SP1 (64-bit) + Oracle 11g 11.1.0.6.0 Standard edition

- Huawei server part description:
Only the eSight compact edition can be installed on desktops. Other eSight editions must be installed on PC servers.

06100529	Desktop,I3 2100Or Above,2G,320G Or
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	Above,DVDRW,Integrated NIC,NIC,Integrated Audio Card,Internal Speaker,19-Inch Wide LCD,Chinese Windows 7 Professional 32bit
06100530	Desktop,I3 2100Or Above,2G,320G Or Above,DVDRW,Integrated NIC,NIC,Integrated Audio Card,Internal Speaker,19-Inch Wide LCD,English Windows 7 Professional 32bit
02310FJE	PC Server,IBM X3650M3,Xeon quad-core5506 2.13GHz or above,4G(1*4G),1*300G(2.5"SAS),DVDRW,4*Integrated 1000M NIC,Integrated ServeRaid M5015 Raidcard,iMM,Eng. Doc,3Y5*8,2*675W(1+1),100V~240VAC,No KVM
02310FJF	PC Server,IBM X3650M3,2*Xeon quad-core5506 2.13GHz or above,8G(2*4G),1*300G(2.5"SAS),DVDRW,4*Integrated 1000M NIC,Integrated ServeRaid M5015 Raidcard,iMM,Eng. Doc, 3Y5*8,2*675W(1+1),100V~240VAC,No KVM
02310FJG	PC Server,IBM X3650M3,2*Xeon 4Core E5620 2.4G or above,16G(2*8G),1*300G(2.5SAS),DVDRW,2*Integrated 1000M NIC(dual ports),ServeRAID M5015(512M)Battery protection,iMM System management card,En.Doc,3Y5*8-2*675W(1+1)-100V~240VAC
02310FJH	PC Server,IBM X3850X5,4*Xeon 8Core E7-4820 2.0G or above,32G(8*4G),2*300G(2.5SAS),DVDRW,1*Integrated 1000M NIC(dual),1*1000M NIC(dual),ServeRAID M5015(512M)Battery protection,iMM System management card,En.Doc,3Y5*8-2*1975W(1+1)-100V~240VAC