

Data Sheet Fujitsu PRIMERGY RX1330 M2 Server

Small in size and low in cost – rich in optional features

PRIMERGY RX1330 M2

The FUJITSU Server PRIMERGY RX1330 M2 is a mono-socket rack server designed to provide a solution for small budgets, yet enabling a rich set of optional expansions to best meet individual demands. Its usage patterns cover file, infrastructure and communication or collaboration applications by delivering up to 64 GB RAM, up to 3 PCIe slots and up to 10 2.5-inch hard disk drives. Moreover, this 1U server allows for diverse individual configurations with optional features, such as hot-plug power supply units, redundant fans and RAID controller. By delivering high energy efficiency and operation in higher ambient temperature thanks to optional Cool-safe® Advanced Thermal Design, the PRIMERGY RX1330 M2 also contributes to very low operational costs. ServerView™ Suite and remote management features (iRMC S4) simplify the administration.











Features & Benefits

Main Features **Benefits** Low in costs ■ High energy efficient Clear reduction in energy costs saving OPEX ■ Fujitsu ServerView[™] suite and onboard remote management Comprehensive and simplified management reduce time for features (iRMC S4) enables centralized management standard administration tasks ■ Cool-safe® Advanced Thermal Design enables operation in a higher ■ Each additional degree means approximately 5-6 percent less ambient temperature energy costs for air-conditioning Flexible foundation for infrastructure tasks ■ Intel Xeon processor E3-1200 v5 and up to 64 GB DDR4 memory, up Cost-optimized foundation for file, infrastructure and to 3 PCIe slots and up to 10 storage drives communication applications ■ Flexible to meet the individual demand, the huge storage capacity ■ Free choice: Up to 4x 3.5-inch or up to 10x 2.5-inch storage drives ■ Broad selection of operating systems fulfills requirements of storage demanding application or services Red Hat Linux, Suse Linux, Microsoft Windows Server - it's up to you Rich set of optional features ■ Choice of Intel Xeon E3 v5, Core i3, Celeron and Pentium processors ■ Perfectly meet the performance requirements with available budget ■ Modular RAID controllers Match redundancy requirements with available budget ■ Redundant fans ■ Hot-plug and redundant power supply (PSU) with 80 PLUS platinum energy efficiency (94 %) Full-height PCIe slot Integrated UPS - Easy & reliable ■ The Fujitsu FJBU internal battery backup is an alternative for Keeps the server running during short blackouts or voltage fluctuations and enables a graceful shutdown classical UPS devices ■ Same life time as the server – no maintenance necessary ■ Compact battery unit that fits into modular PSU slot ■ Ni-MH battery allows for a very long life time (5 years) ■ Easy and clean setup: no cabling, no separate device Full integration into server management environment

Technical details

PRIMERGY RX1330 M2	DV1220 442 LEE	DV1220 M2 LEE	DV1220 M2 CEE	DV1220 M2 CEE	DV1220 442 CEE	
Base unit	RX1330 M2 LFF	RX1330 M2 LFF	RX1330 M2 SFF	RX1330 M2 SFF	RX1330 M2 SFF 10xSFF	
Order code	Order Code: S26361- K1550-V101	Order Code: S26361- K1550-V201	Order Code: S26361- K1550-V301	Order Code: S26361- K1550-V401	Order Code: S26361 K1550-V501	
Housing types	Rack	Rack	Rack	Rack	Rack	
Storage drive architecture	3.5-inch SAS/SATA	3.5-inch SAS/SATA	2.5-inch SAS/SATA	2.5-inch SAS/SATA	2.5-inch SAS/SATA	
Power supply	Standard	Hot-plug	Standard	Hot-plug	Hot-plug	
Product Type	Mono Socket Rack Server	Mono Socket Rack Server	Mono Socket Rack Server	Mono Socket Rack Server	Mono Socket Rack Server	
Mainboard						
Mainboard type	D3375					
Chipset	Intel® C236					
Processor quantity and type	1 x Intel® Xeon® processor E3-1200 v5 product family / Intel® Core™ i3 processor / Intel® Pentium® processor / Intel® Celeron® processor					
Graphics add on cards	Professional 2D: NVIDIA® NVS™315 LP, PCIe x16, 2 x DVI/VGA					
	Intel® Xeon® processo	or E3-1280v5 (4C/8T, 3.7	0 GHz, 2,133 MHz)			
	Intel® Xeon® processo	or E3-1270v5 (4C/8T, 3.6	0 GHz, 2,133 MHz)			
	Intel® Xeon® processor E3-1260Lv5 (4C/8T, 2.90 GHz, 2,133 MHz)					
	Intel® Xeon® processor E3-1240v5 (4C/8T, 3.50 GHz, 2,133 MHz)					
	Intel® Xeon® processor E3-1240Lv5 (4C/8T, 2.10 GHz, 2,133 MHz)					
Processor	Intel® Xeon® processor E3-1230v5 (4C/8T, 3.40 GHz, 2,133 MHz)					
	Intel® Xeon® processor E3-1225v5 (4C/4T, 3.30 GHz, 2,133 MHz)					
	Intel® Xeon® processor E3-1220v5 (4C/4T, 3.00 GHz, 2,133 MHz)					
	Intel® Pentium® processor G4400 (2C/2T, 3.30 GHz, 2,133 MHz)					
	Intel® Core™ i3-6100 processor (2C/4T, 3.70 GHz, 2,133 MHz)					
		ssor G3900 (2C/2T, 2.80	•			
Memory slots	· · · · · · · · · · · · · · · · · · ·					
Memory slot type	4 (2 banks with 2 DIMMs each)					
Memory capacity (min max.)	DIMM (DDR4)					
Memory protection	4 GB - 64 GB					
Memory notes	ECC Dual channel support. For dual channel performance, a minimum of 2 memory modules have to be ordered. Capa per channel has to be the same.					
Interfaces						
USB 3.0 ports	6 x (2x front, 4x rear) (10x 2.5" HDD base unit: 1x USB 2.0, 4x rear USB 3.0)					
Graphics (15-pin)	1 x VGA (15-pin) / optional 1 x front VGA (not for 10x 2.5" HDD base unit)					
Serial connection	1 x serial RS-232-C, usable for iRMC S4 or system or shared					
LAN / Ethernet (RJ-45)	2 x 1 Gbit/s Ethernet	,				
Management LAN (RJ45)	1 x dedicated management LAN port for iRMC S4 (10/100/1000 Mbit/s) Management LAN traffic can be switched to shared onboard Gbit LAN port					
Onboard or integrated Controller						
RAID controller	Integrated RAID 0/1 or RAID 5/6 controller (option) All hardware storage controller options are described under Components					
SATA Controller	Intel® C236, 1 port used for accessible drive or SATA DOM 4 port for internal SATA HDDs with RAID 0, 1, 10 for Windows and Linux;					
LAN Controller	Intel® i210 onboard 2 x 10/100/1000 Mbit iSCSI, PXE-Boot and W	/s Ethernet (TCP/IP acce	leration)			

Onboard or integrated Controller				
Remote management controller	Integrated Remote Management Controller (iRMC S4, 256 MB attached memory incl. graphics controller) IPMI 2.0 compatible			
Trusted Platform Module (TPM)	Infineon / TPM 1.2 or TPM 2.0 module; TCG compliant (option)			
Onboard or integrated Controller (Ba	ase unit specific)			
RAID controller		4 port SATA with RAID 0/1/10 for HDDs 4 port SATA with RAID 0/1/10 for HDDs		
SATA Controller	4-port SATA 6Gb with RAID	0, 1, 10	4-port SATA 3GB with RAID 0, 1, 10	
SATA controller type notes	for hot-plug SATA hard disk	S	for hot-plug SATA hard disks	
Slots				
PCI-Express 3.0 x4	1 x Low profile			
PCI-Express 3.0 x8	2 x Low profile Length 175mm; PCle slot#1 = dedicated Modular RAID slot			
Slot Notes	Optional support of 1x full	Optional support of 1x full height PCle Gen3 x8 card, instead of 1x PCle Gen2 x4 and 1x PCle Gen3 x8		
Drive bays				
Storage drive bays	4/8 x 2.5-inch hot-plug SAS	S/SATA or 4x 3.5-inch hot-plug	SAS/SATA or 10 x 2.5-inch hot-	plug SAS/SATA
Accessible drive bays	1 x 5.25/0.4-inch for CD-RW	//DVD		
Notes accessible drives	Following limitations appli	es to 10x 2.5-inch HDD base u	nit: No CD-RW/DVD, 1x USB 2.	0 at the front, no front VGA
Drive bays (Base unit specific)				
Storage drive bays	Max. 4x 3.5-inch	Max. 8x 2.5-inch	Max. 10	Ox 2.5-inch
Fan Configuration				
Number of fans	4			
Fan notes	4 fans in combination with redundancy.	standard power supply or 5 fa	ns in combination with hot-p	lug PSU base unit for 1+4
Number of fans	4	5	4	5
Fan configuration	4 standard fan	5 redundant fan	4 standard fan	5 redundant fan
Fan notes	non redundant / non hot- plug	redundant / non hot-plug	non redundant / non hot- plug	redundant / non hot-plug
Operating panel				
Operating buttons	On/off switch NMI button Reset button			
Status LEDs	System status (orange) Identification (blue) Hard disks access (green) Power (green) At system rear side: System status (orange) Identification (blue) LAN connection (green) LAN speed (green / yellow)			
BIOS				
BIOS features	ROM based setup utility Recovery BIOS BIOS settings save and rest Local BIOS update from USI Online update tools for ma Local and remote update v Remote PXE boot support Remote iSCSI boot support	3 device	Г	

Operating Systems and Virtualization Software

Certified or supported operating systems and virtualization software

Hyper-V Server 2016

Windows Server 2016 Datacenter

Windows Server 2016 Standard

Windows Server 2016 Essentials

Windows Storage Server 2016 Standard

Hyper-V Server 2012 R2

Windows Server 2012 R2 Datacenter

Windows Server 2012 R2 Standard

Windows Server 2012 R2 Essentials

Windows Server 2012 R2 Foundation

Windows Storage Server 2012 R2 Standard

Hyper-V Server 2012

Windows Server 2012 Datacenter

Windows Server 2012 Standard

Windows Server 2012 Essentials

Windows Server 2012 Foundation

Windows Storage Server 2012 Standard

Hyper-V™ Server 2008 R2

Windows Server 2008 R2 Datacenter

Windows Server 2008 R2 Enterprise

Windows Server 2008 R2 Standard

Windows Server 2008 R2 Foundation

VMware vSphere™ 6.5

VMware vSphere™ 6.0

VMware vSphere™ 5.5

SUSE® Linux Enterprise Server 12

SUSE® Linux Enterprise Server 11

Red Hat® Enterprise Linux 7

Red Hat® Enterprise Linux 6

Oracle® Linux 6

Operating system release link

Operating system notes

VMware ESX hints:

- SATA RAID is not supported
- Storing virtual machines locally requires a SAS RAID Controller

http://docs.ts.fujitsu.com/dl.aspx?id=d4ebd846-aa0c-478b-8f58-4cfbf3230473

Support of other Linux derivatives on demand

Red Hat® certification starting with version 5.8 / 6.4.

Hardware requirements of Software Defined Storage supported by i.e. Microsoft Storage Spaces or VMWare vSAN please see Systemarchitect or paper configurator or datasheet of PSAS CP400i.

Server Management		
DC Infrastructure Management	ServerView Suite - Deploy	
-	Installation Manager	
	Scripting Toolkit	
	ServerView Suite - Control Operations Manager incl. PDA and ASR & R	
	Agents and CIM Providers / Agentless Service	
	System Monitor	
	RAID Manager	
	Capacity Management Power Management	
	Storage Support	
	ServerView Suite - Maintain	
	Remote Management (iRMC)	
	Update Management (BIOS, Firmware, Windows Drives and SV Agents)	
	Performance Measurement Asset Management	
	Online Diagnostics	
	ServerView Suite - Integrate	
	Integration packs for Microsoft System Center, VMware vCenter, VMware vRealize, Nagios, and HP SIM Deployment tools and others	
Server Management	ServerView embedded Lifecycle Management (eLCM)	
	Lifecycle management ServerView Suite - Maintain	
	iRMC Advanced Pack incl. Advanced Video Redirection (AVR), video capturing and Virtual Media	
	ServerView Suite - Dynamize	
	Virtual-IO Manager (VIOM)	
Management notes	Regarding dependencies for ServerView Suite software products see dedicated product data sheets.	
Dimensions / Weight		
Rack (W x D x H)	482.6 mm (Bezel) / 435.4 mm (Body) x 572 x 42.8 mm	
Height Unit Rack	1 U	
Mounting Cable depth rack	200 mm cable depth	
Weight	up to 13 kg	
Weight notes	Actual weight may vary depending on configuration	
Rack integration kit	Rack integration kit as option	
Environment		
Operating ambient temperature	5 - 40 °C (41 - 104 °F)	
Operating temperature note	Cool-safe® Advanced Thermal Design (above 35 °C or below 10 °C) depending on configuration. For detailed information see relevant system configurator.	
Operating relative humidity	10 - 85 % (non condensing)	
Operating environment	FTS 04230 – Guideline for Data Center (installation specification)	
Operating environment link	http://docs.ts.fujitsu.com/dl.aspx?id=589915e9-1bf8-40f7-8ba4-7cac9371f2f0	
Sound pressure (LpAm)	25 / 35 dB(A) (min / max idle), 25 / 35 db(A) (min / max operating)	
Sound power (LWAd; 1B = 10dB)	4.1 / 5.1 B (min / max idle), 4.1 / 5.1 B (min / max operating)	
Noise notes	Noise emissions and operation modes depend on system configuration.	
Electrical values		
Power supply configuration	1x standard power supply or1x hot-plug power supply or 2x hot plug power supplies for redundancy depending on model	
Hot-plug power supply redundancy	Optional	
Active power (max. configuration)	152 W	
Apparent power (max. configuration)	155 VA	
Heat emission (max. configuration)	547.2 kJ/h (518.6 BTU/h)	
Rated current max.	4.0 A (100 V) / 2.0 A (240 V)	
Active power note	To estimate the power consumption of different configurations use the Power Calculator of the System Architect:	
	http://configurator.ts.fujitsu.com/public/	

Electrical values		
Power supply	300W standard, 92% (Gold efficiency), 100-240V, 50 / 60Hz 450W hot-plug, 94% (Platinum efficiency), 100-240V, 50 / 60Hz	
Power supply notes	Power Safeguard adapts system performance in case the power requirements exceeds supply limits.	
Battery backup	Fujitsu Battery Unit 380W, 12V (as option)	
Compliance		
Global	CB RoHS (Substance limitations in accordance with global RoHS regulations) WEEE (Waste electrical and electronical equipment)	
Germany	GS .	
Europe	CE	
USA/Canada	CSAc/us ULc/us FCC Class A	
Japan	VCCI:V3 Class A + JIS 61000-3-2	
Russia	GOST	
South Korea	KC	
China	CCC	
Australia/New Zealand	C-Tick	
Taiwan	BSMI	
Compliance link	https://sp.ts.fujitsu.com/sites/certificates	
Compliance notes	There is general compliance with the safety requirements of all European countries and North America. National approvals required in order to satisfy statutory regulations or for other reasons can be applied for on request. * Warning: This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.	

Components

Optical drives	Blu-ray Disc™ Triple Writer, (6x BD-RW, 8x DVD, 24x CD), ultraslim, SATA I			
	DVD Super Multi ultra slim , (8x DVD; 24x CD), ultraslim, SATA I			
Hard disk drives	HDD SATA, 6 Gb/s, 2 TB, 7,200 rpm, 512n, hot-plug, 2.5-inch, business critical			
	HDD SATA, 6 Gb/s, 2 TB, 7,200 rpm, 512e, hot-plug, 2.5-inch, business critical			
	HDD SATA, 6 Gb/s, 1 TB, 7,200 rpm, 512n, hot-plug, 2.5-inch, business critical			
	HDD SATA, 6 Gb/s, 1 TB, 7,200 rpm, 512e, hot-plug, 2.5-inch, business critical			
Hard disk drives	HDD SAS, 12 Gb/s, 900 GB, 10,000 rpm, 512n, hot-plug, 2.5-inch, enterprise			
	HDD SAS, 12 Gb/s, 900 GB, 10,000 rpm, 512e, hot-plug, 2.5-inch, enterprise			
	HDD SAS, 12 Gb/s, 600 GB, 15,000 rpm, 512n, hot-plug, 2.5-inch, enterprise			
	HDD SAS, 12 Gb/s, 600 GB, 10,000 rpm, 512n, hot-plug, 2.5-inch, enterprise			
	HDD SAS, 12 Gb/s, 600 GB, 10,000 rpm, 512e, hot-plug, 2.5-inch, enterprise			
	HDD SAS, 12 Gb/s, 600 GB , 10,000 rpm, 512n, hot-plug, 2.5-inch, enterprise, SED			
	HDD SAS, 12 Gb/s, 450 GB, 15,000 rpm, 512n, hot-plug, 2.5-inch, enterprise			
	HDD SAS, 12 Gb/s, 300 GB, 15,000 rpm, 512n, hot-plug, 2.5-inch, enterprise, SED			

HDD SAS, 12 Gb/s, 300 GB, 15,000 rpm, 512n, hot-plug, 2.5-inch, enterprise
HDD SAS, 12 Gb/s, 300 GB, 10,000 rpm, 512n, hot-plug, 2.5-inch, enterprise, SED
HDD SAS, 12 Gb/s, 300 GB, 10,000 rpm, 512n, hot-plug, 2.5-inch, enterprise
HDD SAS, 12 Gb/s, 2 TB, 7,200 rpm, 512e, hot-plug, 2.5-inch, business critical
HDD SAS, 12 Gb/s, 1.8 TB, 10,000 rpm, 512e, hot-plug, 2.5-inch, enterprise, SED
HDD SAS, 12 Gb/s, 1.8 TB, 10,000 rpm, 512e, hot-plug, 2.5-inch, enterprise
HDD SAS, 12 Gb/s, 1.2 TB, 10,000 rpm, hot-plug, 2.5-inch, enterprise
HDD SAS, 12 Gb/s, 1.2 TB, 10,000 rpm, 512e, hot-plug, 2.5-inch, enterprise
HDD SAS, 12 Gb/s, 1.2 TB , 10,000 rpm, 512n, hot-plug, 2.5-inch, enterprise, SED
HDD SAS, 12 Gb/s, 1 TB, 7,200 rpm, 512e, hot-plug, 2.5-inch, business critical
SSD SATA, 6 Gb/s, 960 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years)
SSD SATA, 6 Gb/s, 960 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD (drive writes per day for 5 years)
SSD SATA, 6 Gb/s, 800 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years)
SSD SATA, 6 Gb/s, 480 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years)
SSD SATA, 6 Gb/s, 240 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years)
SSD SATA, 6 Gb/s, 120 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD (drive writes per day for 5 years)
SSD SATA, 6 Gb/s, 1.92 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD (drive writes per day for 5 years)
SSD SATA, 6 Gb/s, 1.6 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years)
SSD SATA, 6 Gb/s, 1.2 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years)
DOM SATA, 6 Gb/s, 128 GB, non hot plug, enterprise, 0.13 DWPD (Drive Writes Per Day for 5 years)
DOM SATA, 6 Gb/s, 64 GB, non hot plug, enterprise, 0.14 DWPD (Drive Writes Per Day for 5 years)
LSI PSAS CP400e LP SAS Ctrl. 12 Gbit/s 8 ports ext. PCle 3.0 x8
Fujitsu PSAS CP400i SAS Ctrl. 12 Gbit/s 8 ports int. PCle 3.0 x8
Fujitsu PRAID EP420i, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, 8 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 2 GB, Optional FBU based on LSI SAS3108
Fujitsu PRAID EP420i for SafeStore, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, 8 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 2 GB, Optional FBU based on LSI SAS3108
Fujitsu PRAID EP400i, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, 8 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 1 GB, Optional FBU based on LSI SAS3108
Fujitsu PRAID CP400i, RAID Ctrl., SAS/SATA 12 Gbit/s, 8 ports int. RAID level: 0, 1, 1E, 10, 5, 50, No FBU support
Fibre Channel Host Bus Adapter 1 x 8 Gbit/s Qlogic QLE2560 MMF LC-style
Fibre Channel Host Bus Adapter 2 x 8 Gbit/s Qlogic QLE2562 MMF LC-style
Ethernet Ctrl. 1 x 1 Gbit/s PCIe 2.1 x1 RJ45 (Intel®)
Ethernet Ctrl. 2 x 10 Gbit/s PCle 2.0 x8 SFP+ (Fujitsu) Ethernet Ctrl. 2 x 10 Gbit/s PCle 2.1 x8 RJ45 (Intel®)
Ethernet Ctrl. 2 x 10 Gbit/s PCle 2.1 xo k)45 (Intel®) Ethernet Ctrl. 2 x 10 Gbit/s PCle 3.0 x8 SFP+ (Emulex)
Ethernet Ctrl. 2 x 10 Gbit/s PCle 3.0 x8 SFP+ (Ethidiex) Ethernet Ctrl. 2 x 10 Gbit/s PCle 3.0 x8 SFP+ (Intel®)
Ethernet Ctrl. 2 x 1 Gbit/s PCle 3.0 x6 SFF+ (Title1®)
Ethernet Ctrl. 4 x 1 Gbit/s PCle 2.1 x4 RJ45 (Intel®)
NVIDIA® NVS™315 LP, PCIe x16, 2 x DVI/VGA
Rackmount kit full extraction (665mm), tool less mounting, length variable 559-914mm
Rackmount kit full extraction (815mm), tool less mounting, length variable 559-914mm
Rackmount kit full extraction (815mm), tool less mounting, length variable 559-914mm
Rackmount kit tool less mounting
Cable Management 1U for PRIMECENTER- and 3rd-party racks
1 year
Onsite warranty

Warranty	
Product Support Services - the p	perfect extension
Support Pack Options	Globally available in major business areas: 9x5, Next Business Day Onsite Response Time 9x5, 4h Onsite Response Time (depending on country) 24x7, 4h Onsite Response Time (depending on country)
Recommended Service	24x7, Onsite Response Time: 4h - For locations outside of EMEIA please contact your local Fujitsu partner.
Service Lifecycle	5 years
Spare Parts availability	
Service Weblink	http://ts.fujitsu.com/Supportservice

More information

Fujitsu platform solutions

In addition to Fujitsu PRIMERGY RX1330 M2, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

Dynamic Infrastructures

With the Fujitsu Dynamic Infrastructures approach, Fujitsu offers a full portfolio of IT products, solutions and services, ranging from clients to datacenter solutions, Managed Infrastructure and Infrastructure as-a-Service. How much you benefit from Fujitsu technologies and services depends on the level of cooperation you choose. This takes IT flexibility and efficiency to the next level.

Computing Products

www.fujitsu.com/global/products/computing/

Software

www.fujitsu.com/software/

More information

Learn more about Fujitsu PRIMERGY RX1330 M2, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.

www.fujitsu.com/global/products/computing/servers/primergy/rack/rx1330m2/

Fujitsu green policy innovation

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