

Model RED QMS 21 PARKING SERVER

Server za instalaciju parking sistema predstavlja osnovnu komponentu za efikasno i pouzdano upravljanje parking prostorima. Dizajniran je da podrži složene aplikacije za kontrolu pristupa, naplatu parkinga, praćenje zauzetosti prostora i

integraciju sa drugim infrastrukturnim sistemima. Kvalitetan hardver i softver omogućavaju brz i stabilan rad, čak i u uslovima intenzivne upotrebe. Ovaj server je optimizovan za kontinuirani rad 24/7, sa naprednim funkcijama za zaštitu podataka, mrežnu sigurnost i prilagodljivost budućim potrebama.





Main Features

Well-balanced price / performance ratio

- Intel® Xeon® E5-2400 v2 product family with up to 10 cores
- Up to 192 GB RAM (12 DIMM slots) and up to 6 PCle slots, 768 GB RAM on special release

Flexible and scalable platform

- Huge number of storage drives of up to twelve 3.5-inch or sixteen
 2.5-inch storage drives, prepared for 12Gits / SAS 3
- Modular concept for the base unit as well as a choice for LAN controller, RAID controller and power supplies
- Upgrade kits for hard disk drives and backup devices (3.5-inch and 5.25-inch)

Cost efficient operations

- Simplified power management with different pre-defined power profiles
- 2 hot-plug PSU with 96% efficiency (80Plus titanium)
- Fujitsu ServerView Suite offers tools for installation and deployment, permanent status monitoring and control. A wide range of integration packs allow a seamless and easy integration in widelyused enterprise management systems

Benefits

- Provides a well-balanced price / performance ratio for essential business applications or small virtualization environments
- Scalable platform to best meet future demand
- High storage capacity for storage demanding applications and scale-out scenarios
- Individual and cost-saving configuration of the server according to the need of today with upgrade options to meet the demand of tomorrow
- Upgrade kits save budget as the system can be upgraded when the company grows and thus protect the investment
- Simplified and comprehensive power management that results with the high efficient power supplies in significant savings
- Fujitsu ServerView Suite provides all the functions for fail-safe, flexible and automated 24x7 server operations and improves enduser productivity via intelligent and innovative system management solutions.



Technical details

PRIMERGY RX2520 M1		
Base unit	PRIMERGY RX2520 M1 LFF	PRIMERGY RX2520 M1 SFF
Housing types	Rack	Rack
Storage drive architecture	max. 8x 3.5-inch SAS/SATA	max. 16x 2.5-inch SAS/SATA
Power supply	Hot-plug	Hot-plug
Mainboard		
Mainboard type	D3169	
Chipset	Intel® C600 (Intel® Patsburg A)	
Processor quantity and type	1 - 2 x Intel® Xeon® processor E5-2400 v2 product family	
Processor	Intel® Xeon® processor E5-2403v2 (4C/4T, 1.80 GHz, TLC: 10 MB, Turbo: No, 6.4 GT/s, Mem bus: 1,333 MHz, 80 W)	
	Intel® Xeon® processor E5-2407v2 (4C/4T, 2.40 GHz, TLC: 10 MB, Turbo: No, 6.4 GT/s, Mem bus: 1,333 MHz, 80 W)	
	Intel [®] Xeon [®] processor E5-2420v2 (6C/12T, 2.20 GHz, TLC: 15 MB, Turbo: Yes, 7.2 GT/s, Mem bus: 1,600 MHz, 80 W)	
	Intel® Xeon® processor E5-2430Lv2	
	(6C/12T, 2.40 GHz, TLC: 15 MB, Turbo: Yes, 7.2 GT/s, Mem bus: 1,600 MHz, 60 W)	
	Intel® Xeon® processor E5-2430v2 (6C/12T, 2.50 GHz, TLC: 15 MB, Turbo: Yes, 7.2 GT/s, Mem bus: 1,600 MHz, 80 W)	
	Intel® Xeon® processor E5-2440v2	
	(8 Cores / 16 Threads, 1.90 GHz, TLC: 20 MB, Turbo: Yes, 7.2 GT/s, Mem bus: 1,600 MHz, 95 W)	
	Intel® Xeon® processor E5-2450Lv2	
	(10C/20T, 1.70 GHz, TLC: 25 MB, Turbo: Yes, 8.0 GT/s, Mem bus: 1,600 MHz, 60 W)	
	Intel® Xeon® processor E5-2450v2	
	(8C/16T, 2.50 GHz, TLC: 20 MB, Turbo: Yes, 8.0 GT/s, Mem bus: 1,600 MHz, 95 W)	
	Intel® Xeon® processor E5-2470v2	
	(10C/20T, 2.40 GHz, TLC: 25 MB, Turbo: Yes, 8.0 GT/s, Mem bus: 1,600 MHz, 95 W)	
Memory slots	12 (6 DIMMs per CPU, 3 channels with 2 slots per channel)	
Memory slot type	DIMM (DDR3)	
Memory capacity (min max.)	2 GB - 192 GB	
Memory protection Memory notes	Advanced ECC	
	Memory Scrubbing	
	SDDC (Chipkill™)	
	Supports DDR3 800 / 1066 / 1333 / 1600 RDIMM	
	max. 6 memory modules/CPU with single or dual-rank RDIMM or single, dual-rank or quad-rank Load-Reduced (LR) DIMM.	
		in all three channels (2 modules per bank).
	Support of 32GB and 64GB LR-DIMMs on s	
Memory options		ed, ECC, 1,600 MHz, PC3-12800, DIMM, single rank
	8 GB (1 module(s) 8 GB) DDR3 LV, registered, ECC, 1,600 MHz, PC3-12800, DIMM, single rank	
		tered, ECC, 1,600 MHz, PC3-12800, DIMM, dual rank
Interfaces		
USB 2.0 ports	9 x USB 2.0 (2x front for 2.5" and 1x front	for 3.5" chassis, 4x rear, 2x internal for backup devices, 1x UFM)
Graphics (15-pin)	2 x VGA (thereof 1x front optional)	
Serial 1 (9-pin)	1 x serial RS-232-C, usable for iRMC or system or shared	
LAN / Ethernet		tions for additional 2x1 Gbit/s (RJ45), 4x 1 Gbit/s (RJ45) or 2x 10 Gbit/s (SFP+
Management LAN (RJ45)	1 x dedicated management LAN port for iRMC S4 (10/100/1000 Mbit/s)	
management DN (1943)	Management LAN traffic can be switched	·



Onboard or integrated Controller		
RAID controller	4 port for internal 3 Gbit/s SATA and 3 Gbit/s SAS (as upgrade option with SAS enabling key) for HDDs with RAID 0/1/1 (Intel C600)	
CATA Controller	additional RAID controller options are described under Components RAID controller	
SATA Controller	Intel® C600, 1 x SATA channel for ODD	
AN Controller	Intel® Ethernet Controller I210, 2 x 1Gbit/s Ethernet Controller (10/100/1000 Mbit/s), PXE-Boot via LAN from PXE server iSCSI boot (also diskless)	
Remote Management Controller	IPMI 2.0 compatible Integrated Remote Management Controller (iRMC S4, 256 MB attached memory incl. graphics controller)	
Trusted Platform Module (TPM)	Infineon / separate module; TCG V1.2 compliant (option)	
Slots		
PCI-Express 3.0 x8	6 x Low profile	
PCI-Express 2.0 x4 (mech. x8)	1 x Low profile	
Slot Notes	Important: The number of PCIe slots depends on the number of CPUs: 5x PCIe x8 Gen 3 (2x CPU1; 3x CPU2; mechanical x8) 1x PCIe x4 Gen 2 (PCH; mechanical x8) Internal Slots: 1x PCIe x8 Gen 3 (CPU1; mechanical x8)	
Drive bays		
Storage drive bays	2.5-inch base unit (max. 16 x 2.5) or 3.5-inch base unit (max. 12 x 3.5)	
Accessible drive bays	1 x 5.25/0.5-inch for ODD	
	1 x 5.25/0.5-inch for Local Service Display	
	1 x 3.5/1.6-inch for backup devices	
	1 x 5.25/1.6-inch for backup devices	
Notes accessible drives	All possible options described in relevant system configurator.	
Drive bays (Base unit specific)		
Storage drive bays	Max 8 x 3.5-inch Max 16 x 2.5-inch	
Optional accessible drives	ODD 5.25" possible LTO 5.25" or DAT/RDX 3.5" possible	
General system information		
Number of fans	2	
Fan configuration	hot-plug / optional redundant	
Fan notes	2 +1 redundant option, additional fan for 2nd CPU	
Operating panel		
Operating buttons	On/off switch	
	Reset button	
	NMI button	
	ID button	
Status LEDs	System status (orange / yellow)	
	Identification (blue)	
	Hard disks access (green)	
	Power (amber / green)	
	At system rear side:	
	System status (orange / yellow)	
	Identification (blue)	
	LAN connection (green)	
	LAN speed (green / yellow)	
Service display	Optional:	
	ServerView Local Service Display (LSD)	



Server Management		
Standard	ServerView Suite - Deploy	
	SV Installation Manager	
	SV Scripting Toolkit	
	ServerView Suite - Control	
	Operations Manager incl. PDA and ASR & R	
	(Prefailure and Analysis; Automatic Server Recovery and Restart)	
	Agents and CIM Providers 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 e.g. for Microsoft System Center, VMware vCenter, Nagios, HP SIM and others Deployment Solutions and others	
Ontion	ServerView Suite - Maintain	
Option	iRMC Advanced Pack incl. Advanced Video Redirection (AVR), video capturing and Virtual Media	
	ServerView Suite - Dynamize	
	Virtual-IO Manager (VIOM)	
	Resource Orchestrator Virtual Edition (ROR VE)	
	Resource Orchestrator Cloud Edition (ROR CE)	
	ServerView Suite - Integrate	
	Integration pack for Fujitsu ManageNow® solution	
Dimensions / Weight		
Rack (W x D x H)	482.6 mm (Bezel) / 445mm (Body) x 770 x 86.9 mm	
Mounting Depth Rack	735 mm	
Height Unit Rack	2 U	
19" rackmount	Yes	
Weight	up to 25 kg	
Weight notes	Actual weight may vary depending on configuration	
Rack integration kit	Rack integration kit as option	
Environmental	, ,	
	5 - 40 °C	
Operating ambient temperature	Cool-Safe© Advanced Thermal Design (above 35 °C or below 10 °C) depending on configuration. For detailed	
Operating temperature note	information see relevant system configurator.	
Operating relative humidity	10 - 85 % (non condensing)	
	FTS 04230 – Guideline for Data Center (installation specification)	
Operating environment	·	
Operating environment Link	http://docs.ts.fujitsu.com/dl.aspx?id=e4813edf-4a27-461a-8184-983092c12dbe	
Noise emission	Measured according to ISO 7779 and declared according to ISO 9296	
Sound pressure (LpAm)	Minimum noise : 34 dB(A) (idle) / 34 dB(A) (operating) Typical noise : 36 dB(A) (idle) / 36 dB(A) (operating)	
Sound power (LWAd; 1B = 10dB)	Minimum noise: 5.76 B (idle) / 5.76 B (operating)	
	Typical noise: 6.1 B (idle) / 6.1 B (operating)	
Noise notes	Noise emissions and operation modes depend on system configuration.	
	Availability of the low noise mode depends on system configuration. To order an eligible system use the checkbox	
	"Enabling low noise mode" in System Architect.	
Electrical values		
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Power supply configuration	1-2x 450W/800W hot-plug power supply	