



Model	PRIMERGY Econel 100 S2	PRIMERGY Econel 200 S2
Type	Mono Socket Economy Server	Dual socket Economy Server
Chipset	Intel® 3200 +ICH9R	Intel® 5000V
Systemboard	D2679	D2530
Processor	Intel® Celeron® / Celeron® Dual Core Processor , 800 MHz FSB; E1200 (1.62GHz) 65W / Intel® Pentium® dual-core Processor 800 MHz FSB; E2200 (2.2GHz) 65W, E2220 (2.4GHz) 65W, E5200 (2.53GHz) 65W / E5300 (2.6GHz) 65W Intel® Core™2 Duo / Core™2 Quad® Processor 800 / 1066 MHz FSB; E7200 (2.53GHz) 65W, E7300 (2.66GHz) 65W, E7400 (2.8GHz) 65W, Q6600 (2.4GHz) 95W / Intel® Xeon® Dual-Core / Quad-Core Processor 1333 / 1066 MHz FSB; 3065 (2.33GHz) 65W, 3075 (2.66GHz) 65W, 3085 (3.0GHz) 65W, E3110 (3.00GHz) 65W, E3120 (3.16GHz) 65W Dual-Core / X3210 (2.13GHz) 95W, X3220 (2.4GHz) 95W, X3230 (2.66GHz) 95W, X3320 (2.5GHz) 95W, X3330 (2.66GHz) 95W Quad-Core	Intel® Xeon® Processor Quad-Core, 1066 / 1333 MHz FSB; 5110 (1.60 GHz) 65W / E5310 (1.60GHz) 80W / L5310 (1.60GHz) / E5335 (2.00GHz) 80W
Bus	PCI/PCI-Express	PCI-X/PCI/PCI-Express
Second level cache	512 KB up to 8 MB ECC protected	2x 2 MB / 4 MB (5100 series, E53xx series) ECC protected
Memory	512 MB to 8 GB, ECC DDR2 SDRAM, PC2-5300E / 6400E	512 MB to 8 GB, ECC PC2-5300F FullyBuffered DIMM RAM, mix and match possible; onboard components limit the availability memory array
Floppy disk drive	3.5-inch opt.	3.5-inch opt.
CD/DVD drive	DVD or CD/DVD-RW (SATA)	DVD or CD/DVD-RW option IDE
Hard disk drive (GB)	Up to 4x 3.5-inch 160 / 250 / 500 / 750 GB / 1 TB SATA easy change, non hot-plug (max. ca. 4 TB)	4x 160 / 250 / 500 GB SATA easy change(max. ca. 2 TB)
Media bays (inch)	2x 5.25 (1 for DVD or CD/DVD-RW); 1x 3.5 (for floppy disk)	3x 5.25; 3.5 (for floppy disk)
I/O slots	3x PCIe (1x1; 1x4; 1x8); 1x PCI 32-bit / 33 MHz	1x PCIe (1x4 phys. x8), 1x PCIe (1x8 phys. x16) 1x PCI 32-bit / 33 MHz 3x PCI-X 64-bit / 100 MHz (IOOP)
Onboard controller	6x SATA2 (3Gbit); ICH 9R RAID 0,1 incl. LSI RAID Stack; 1x 10/100/1000 Mbit/s Ethernet LAN; Graphics ATI ES1000 (RN50) - 32MB; TPM opt. Infineon/1.2	Fast ATA100 (IDE); 2 channel for CD-ROM and other accessible drives; RAID 0,1, 10 (LSI SATA), RAID 5 enabling key opt.; 1x 10/100/1000 Mbit/s Ethernet LAN; Graphics ATI ES1000 32 MB onboard
Disk array controller	-	SATA Variant RAID 0,1,10 for up to 4 SATA HDD
Weight (kg)	approx. 12 (depending on configuration)	approx. 21-28 (depending on configuration)
Power supply (output power)	260 W standard / 300 W standard	560 W standard
Dimensions (H x W x D) in mm, Rack height units Rack mounting depth in mm Rack cable depth in mm	390 x 203 x 386	444 x 215 x 520
Standard	PRIMERGY ServerView Suite	PRIMERGY ServerView Suite
Active Power	171W / 188W	453 W
Operating systems support	Microsoft® Windows®, SUSE and Red Hat Linux	Microsoft® Windows®, SUSE and Red Hat Linux
Special features	SATA as standard; PDA	SATA as standard; PDA, OS watchdog



Model	PRIMERGY Econel 230R S1
Type	Dual socket AMD Opteron™ 2000 High Performance Economy Rack Server
Chipset	BroadCom HT2100 plus HT1000
Systemboard	D2440-A110
Processor	AMD Opteron™ 2000 series, 1 GHz HyperTransport™ Bus; 2212 (2.0GHz) 95W, 2214 (2.2GHz) 95W, 2216 (2.4GHz) 95W / 2218 (2.6GHz) 95W Dual-Core; 2346HE (1.80GHz) 55W, 2347HE (1.90GHz) 55W, 2350HE (2.0GHz) 55W Quad-Core
Bus	PCI-X/PCI-Express
Second level cache	2x 1 MB, ECC protected
Third level cache	2 MB (Quad-Core)
Memory	1 GB to 16 GB (8GB per CPU), 2-way interleaved, ECC PC2-5300 DDR2-SDRAM, memory scrubbing, SDDC (Chipkill™)
Floppy disk drive	-
CD/DVD drive	DVD or CD-RW/DVD option (IDE)
Hard disk drive (GB)	6x 160 / 250 / 500 / 750 GB / 1 TB SATA easy change (max. ca. 6 TB) or 6x 73 / 146 / 300 / 450 GB SAS (max. ca. 2.7 TB) (2 SAS/SATA backplane optional for hot-plug)
Media bays (inch)	1x 5.25/1.6-inch for tape, DVD-RW or CD-RW/DVD-ROM opt.
I/O slots	1x PCI-Express x8 low-profile on Motherboard and 1x PCIe x8 Standard, 1x PCIe x4 Standard 1x PCI 64-bit/66 MHz (ZCR) on riser board
Onboard controller	Fast ATA100 (IDE); 8-port SAS controller with RAID level 0, 1 (IME also for odd no. HD's) (for Windows and Linux); RAID level 5 extension for onboard SAS/RAID; 2x 10/100/1000 Mbit/s Ethernet LAN + 1x for iRMC; Integrated Remote Management Controller (iRMC) incl. graphics controller, IPMI 2.0 compatible
Disk array controller	ZCR RAID 5 for onboard SAS RAID controller
Weight (kg)	approx. 18-25 (depending on configuration)
Power supply (output power)	600 W standard
Dimensions (H x W x D) in mm, Rack height units Rack mounting depth in mm Rack cable depth in mm	86 x 430 x 770 2 U 100 900
Standard	PRIMERGY ServerView Suite
Active Power	497 W
Operating systems support	Microsoft® Windows®, SUSE and Red Hat Linux
Special features	PDA, ASR&R, RemoteView Web and LAN FrontEnd opt.



Model	PRIMERGY TX120 S1	PRIMERGY TX150 S6
Type	Mono socket Tower Server	Mono socket Tower Server
Chipset	Intel® 3000	Intel® 3210
Systemboard	D2550	D2559
Processor	Intel® Celeron® Processor 800 MHz FSB 440 (2.00GHz)35W; Dual-Core Intel® Xeon® Processor UP, 1066 MHz FSB; 3040 (1.86GHz) 65W, 3070 (2.66GHz) 65W,	Intel® Celeron® Processor ; 800MHz FSB, 440 (2.0GHz) 35W; Intel® Pentium® DC Processor ; 800MHz FSB, E2160 (1.80GHz) 65W, E2200 (2.20GHz) 65W; Intel® Core™2 Duo Processor ; 1066MHz FSB, E7200 (2.53GHz) 65W; Intel® Xeon® Processor UP ; 1333 MHz FSB, E3110 (3.00GHz)65W, E3120 (3.16GHz) 65W, X3220 (2.40GHz) 95W, X3360 (2.83GHz) 95W QC
Bus	PCI 32-bit/PCI-Express	PCI 32-bit/PCI-Express
Second level cache	2MB, 4MB ECC protected	512 KB / 1MB / 3MB /4MB DC / 6MB / 8MB / 12MB(QC33xx); QC ECC protected
Memory	1 GB to 8 GB, ECC DDR2 SDRAM, PC2-5300	1 GB to 8 GB, ECC unbuffered DDR2 800 SDRAM
Floppy disk drive	-	3.5-inch opt.
CD/DVD drive	DVD or DVD-RW (IDE)	DVD opt.
Hard disk drive (GB)	2(4)x 36 / 73 / 146 GB SAS hot-plug (max. ca. 292 GB)	4(6)x 73 / 146 / 300 / 450 GB 3.5-inch SAS hot-plug or 4x 80 / 160 / 250 / 500 / 750 GB / 1 TB 3.5-inch SATA hot-plug or 8x 73 / 146 GB 2.5-inch SAS hot-plug (max. 4 TB)
Media bays (inch)	1x 5.25/0.5-inch (for CD/DVD or CD/DVD-RW); 1x 3.5/1.6-inch for tape or HDD option (in slide-in chassis)	3x 5.25 (for accessible drive options); 1x 3.5 (for floppy disk)
I/O slots	1x PCIe x8(x4 wired, low profile 1x PCIe x1, low profile 1x PCI 32-bit/33 MHz, low profile 5V	3x PCI 32-bit/33 MHz 2x long 5V; 2 x PCIe x8 short; 1x PCIe x4 short; (in SAS configuration 1x PCIe occupied)
Onboard controller	ATA100 (IDE); 4 port SAS with RAID 0, 1 (IME) controller; 1x 10/100/1000 Mbit/s Ethernet LAN; iRMC (integrated Remote Management Controller) incl. graphics, IPMI 2.0	6 port SATA with RAID 1, 1, 10 for Windows and Linux, RAID 5 iButton key opt. 2, ports for accessible drives also in SAS variant; 1x 10/100/1000 Mbit/s Ethernet LAN; iSCSI Boot via onboard LAN; iRMC S2 with 32MB attached memory(integrated Remote Management Controller) incl. graphics, IPMI 2.0
Disk array controller	-	SAS in internal PCIe slot either: 8 port SAS with RAID 0,1 (integrated mirroring enhanced also for odd numbered HD's for Windows and Linux); 8 port SAS with RAID 0,1, 10, 5, 50, 6, 60 (256 or 512 MB RAID cache and opt BBU) for Windows and Linux; external RAID option
Power supply (output power)	250 W standard;	350 W standard; 1 (+1) x 400 W hot-plug / redundant optional
Active Power	163W	64 - 232 W
Weight (kg)	approx. 10 (depending on configuration)	approx. 28 (depending on configuration)
Dimensions (H x W x D) in mm, Rack height units	340 x 99 x 399	444 x 205 x 605 5 U
Standard	PRIMERGY ServerView Suite	PRIMERGY ServerView Suite
Operating systems support	Microsoft® Windows®, SUSE and Red Hat Linux	Microsoft® Windows®, SUSE and Red Hat Linux, VMware
Special features	Tower variant; server management controller onboard; RemoteView opt.; PDA; ASR&R; iRMC advanced pack opt.	Tower or Rack variant; server management controller onboard; RemoteView opt.; PDA; ASR&R; iRMC advanced pack opt., ServerView Local Service Panel (LSP)opt.



Model	PRIMERGY TX200 S4	PRIMERGY TX300 S4
Type	Dual socket Tower Server	Dual socket Tower Server
Chipset	Intel® 5000Z	Intel® 5000P
Systemboard	D2509	D2529
Processor	1-2 64-bit Dual- or Quad-Core Intel® Xeon® Processor ; 1066 MHz (E5205/L5310) / 1333 MHz FSB; E5205 (1.86GHz) 65W (DC), L5410 (2.33GHz), L5420 (2.50GHz) 50W, E5405 (2.00GHz) 80W, E5420 (2.50GHz) 80W, E5430 (2.66GHz) (QC)	1-2 64-bit Dual-or Quad-Core Intel® Xeon® Processor ; 1066 (E5205) / 1333 MHz FSB; E5205 (1.86GHz) 65W, L5240 (3.00GHz) 50W, X5260 (3.33GHz) 80W, X5270 (3.50GHz) 80W (DC), L5410 (2.33GHz) 50W, L5420 (2.50GHz) 50W, E5405 (2.00GHz) 80W, E5420 (2.50GHz) 80W, E5430 (2.66GHz) 80W, E5440 (2.83GHz) 80W, X5460 (3.16GHz) 120W, X5470 (3.33GHz) 120W, (QC)
Bus	PCI-X 64-bit/PCI/PCI-Express	PCI-X 64-bit/PCI-Express
Second level cache	2x4MB (E53xx)/6 MB (E52xx) / 2x 6 MB (E54xx)/ 2x 6MB (L54xx); ECC protected	6 MB (52xx) / 2x 6MB (54xx); ECC protected
Memory	1 GB to 24 GB, ECC PC2-5300F FullyBuffered DIMM RAM, SDDC and hot-spare memory opt.	1 GB to 64 GB, ECC DDR2 PC2-5300F FBD667 FullyBuffered DIMM, SDDC, memory mirroring and hot-spare option
Floppy disk drive	3.5-inch opt.	-
CD/DVD drive	DVD opt.	DVD opt.
Hard disk drive (GB)	4 (6)x 73 / 146 / 300 / 450 GB 3.5-inch hot-plug SAS or 4x 160 / 250 / 500 / 750 GB / 1 TB 3.5-inch hot-plug SATA or 8(8)x 36 / 73 / 146 GB 2.5-inch hot-plug SAS (max. 4 TB)	6(8)x 36 / 73 /146 / 300 / 450 GB 3.5-inch hot-plug SAS or 6x 160 / 250 / 500 / 750 GB / 1 TB 3.5-ich hot-plug SATA or 12(8)x 36, 73, 146 GB 2.5-inch hot-plug SAS (max. 6 TB)
Media bays (inch)	3x 5.25/1.6-inch, (accessible drive opt.), 1x 3.5-inch (floppy disk);	3x 5.25/1.6-inch (accessible drives opt.)
I/O slots	4x PCIe x8 (x4 wired), 2x long (1x for modular SAS RAID controller), (2 slots x8 with performance adapter); 2x PCI-X 64-bit / 100 MHz (1xlong), 3.3V (1x with max. 133 MHz (IOOP™), if only 1 slot is occupied); 1x PCI 32-bit / 33 MHz, 5V	1x PCI-X 64-bit/133 MHz 3.3V; 5x PCIe x8 (x4 wired)
Onboard controller	ATA100 (IDE); 4-port SATA with RAID 0, 1, 10 for Windows and Linux, RAID 5 iButton key opt. plus 2x for accessible drives; 1x 10/100/1000 Mbit/s Ethernet LAN; iRMC with 32MB attached memory (Integrated Remote Management Controller) incl. graphics, IPMI 2.0	2x ATA100 (IDE); 2x 10/100/1000 Mbit/s Ethernet LAN; iRMC with 32MB attached memory (Ingrated Remote Management Controller)incl. graphics, IPMI 2.0
Disk array controller	SAS in internal PCIe slot either: 8-port SAS controller with RAID 0, 1 (integrated mirroring enhanced also for odd numbered HD's for Windows and Linux); 8-port SAS controller with RAID 0, 1, 10, 5, 50, 6, 60 (256 or 512 MB RAID cache and opt. BBU); external RAID option	SAS in internal PCIe slot either: 8-port SAS controller with RAID 0,1 (integrated mirroring enhanced also for odd numbered HD's for Windows and Linux); 8-port SAS with RAID 0, 1, 10, 5, 50, 6, 60 (256 or 512 MB RAID cache and opt. BBU); external RAID option
Power supply (output power)	1x 635 W standard or 2x hot-plug / redundant 700W(optional)	1x 610 standard or 2x hot-plug/redundant 700W (optional)
Active Power	512W	798W
Weight (kg)	approx. 35 (depending on configuration)	ca. 25 - 40 (depending on configuration)
Dimensions (H x W x D) in mm, Rack height units Rack mounting depth in mm	447 x 215 x 699 5 U 742	473 x 286 x 775 4 U 735
Standard	PRIMERGY ServerView Suite	PRIMERGY ServerView Suite
Operating systems support	Microsoft® Windows®, SUSE and Red Hat Linux, VMware	Microsoft® Windows®, SUSE and Red Hat Linux, VMware
Special features	Tower or Rack variant, server management controller onboard, onboard LAN, redundant fans option, extension option for 2 or 8 add. hard disks, RemoteView opt.; iRMC advanced pack opt.; PDA; ASR&R; ServerView Local Service Panel (LSP) opt.	Tower or Rack variant, server management controller onboard, PCIe onboard, onboard LAN and RAID, redundant hot-plug fans extention for 2 or 8 hard disks, RemoteView opt.; iRMC advanced pack opt.; PDA; ASR&R; ServerView Local Service Display (LSD opt. or ServerView Local Service Panel (LSP) opt.



Model	PRIMERGY RX100 S5
Type	Mono socket Rack Server (1U)
Chipset	Intel® 3210
Systemboard	D2542
Processor	Intel® Celeron® Processor ; 800MHz FSB, 440 (2.0GHz) 35W; Intel® Pentium® DC Processor ; 800MHz FSB, E2160 (1.80GHz) 65W, E2200 (2.20GHz) 65W; Intel® Core™2 Duo Processor ; 1066MHz FSB, E7200 (2.53GHz) 65W; Intel® Xeon® Processor UP ; 1333 MHz FSB, E3110 (3.00GHz)65W DC, X3220 (2.40GHz) 95W, X3350 (2.66GHz) 95W, X3360 (2.83GHz) 95W QC
Bus	PCIe
Second level cache	512 KB (Celeron); 1MB (21xx); 2MB (E46xx); 3MB (E72xx); 4 MB (30xx); 8 MB(QC 32xx); 12MB (QC 33xx); ECC protected
	-
Memory	1 GB to 8 GB, unbuffered ECC DDR2-800 SDRAM
Floppy disk drive	-
CD/DVD drive	CD/DVD or CD/DVD-RW
Hard disk drive (GB)	2x 3.5-inch 160 / 250 / 500 / 750 GB / 1 TB easy change SATA or 2x 3.5-inch 73 / 146 / 300 / 450 GB hot-plug SAS (no mix) (max. 1 TB)
Media bays (inch)	1x 5.25/0.5-inch for ODD 1x 3.5/0.5-inch for CSS (Customer Self Service) module
I/O slots	1x PCIe x8 (standard short 175mm or low profile) 1x PCIe x8 (low profile 170mm)
Onboard controller	SATA (for 1x CD-RW, DVD, DVD-RW); 2-port SATA 300 with RAID 0, 1 for easy change SATA HDDs (hot-plug opt.) or 4-port SAS controller with RAID level 0,1 (integrated Mirroring Enhancend for Windows and Linux for internal hot-plug SAS or SATA HDDs); 2x 10/100/1000 Mbit/s Ethernet LAN; iRMC with 32MB attached memory (Integrated Remote Management Controller) incl. graphics controller, IPMI 2.0 compatible
Disk array controller	RAID 0, 1 onboard; PCIe controller opt.
Power supply (output power)	350 W
Active Power	177W
Weight (kg)	approx. 12 (depending on configuration)
Dimensions (H x W x D) in mm,	42.5 x 430 x 560
Rack height Units	1 U
Rack mounting depth	575
Rack cable depth	200
Standard	PRIMERGY ServerView Suite
Operating systems support	Microsoft® Windows®, SUSE and Red Hat Linux
Special features	high density housing, RemoteView/ iRMC advanced pack optional; PDA; ASR&R as standard; ServerView Local Service Panel (LSP) opt.



Model	PRIMERGY RX200 S3	PRIMERGY RX200 S4
Type	Dual socket Rack Server (1U)	Dual socket Rack Server (1U)
Chipset	Intel® 5000P	Intel® 5000P
Systemboard	D2300	D2671
Processor	1-2 64-bit Dual- or Quad-Core Intel® Xeon® Processor ; 667/1066/1333 MHz FSB; 5050 (3.00GHz) / 5060 (3.20GHz) , 5080 (3.73GHz), 5110(1.60GHz), 5120 (1.86GHz) / 5130 (2.00GHz), 5140 (2.33GHz), 5148 (2.33GHz), 5150 (2.66GHz), 5160 (3.00GHz) (DC) / L5310 (1.60GHz), E5310 (1.60GHz), L5320 (1.86 GHz), E5320 (1.86GHz), L5335 (2.00GHz), E5335 (2.00GHz), E5345 (2.33GHz), X5355(2.66GHz), X5365 (3.00GHZ) (QC)	1-2 64-bit Dual- or Quad-Core Intel® Xeon® Processor ; 1066 MHz (E5205)/1333 MHz FSB; E5205 (1.86GHz) 65W, L5240 (3.00GHz) 50W, X5260 (3.33GHz) 80W, X5270 (3.50GHz) 80W (DC)/ L5410 (2.33GHz) 50W, L5420 (2.50 GHz) 50W (QC), E5405 (2.00GHz) 80W, E5420 (2.50GHz) 80W, E5430 (2.66GHz)80W, E5440 (2.83GHz) 80W, X5460 (3.16GHz) 120W, X5470 (3.33GHz)(QC)
Bus	PCI-X 64-bit	PCIe
Second level cache	2x 2MB / 4MB (51xx) / 2x 4 MB (x53xx); ECC protected	6 MB (52xx) / 2x 6MB (54xx); ECC protected
Memory	1 GB to 32GB, 4-way interleaved, FullyBuffered DIMM DDR2 PC2-5300F, ECC, SDDC and memory mirroring option	1 GB to 48GB, 4-way interleaved, FullyBuffered DIMM DDR2 FBD667, PC2-5300F, ECC, SDDC and memory mirroring and hot-spare option
Floppy disk drive	-	-
CD/DVD drive	CD/DVD	DVD opt.
Hard disk drive (GB)	2x 3.5-inch 36 / 73 / 146 / 300 GB or 4x 2.5-inch 36 / 73 / 146 GB hot-plug SAS or 2x 3.5-inch 160/ 250/ 500 GB or 4x 2.5-inch 60 GB SATA hot-plug (max. 1 TB); no mix SAS/SATA, no later conversion from 3.5 to 2.5-inch possible	2x 3.5-inch 73 / 146 / 300 / 450 GB SAS or 4x 2.5-inch 36 / 73 / 146 GB SAS or 2x 3.5-inch 160 / 250 / 500 / 750 GB / 1 TB SATA hot-plug (max. ca 2 TB); no mix of SAS/SATA, no later conversion from 3.5 to 2.5-inch possible
Media bays (inch)	1x 5.25/0.5-inch (for CD/DVD)	1x 3.5/0.5-inch for opt. LocalView display or Customer Self Service (CSS) module; 1x 5.25/0.5-inch for DVD opt.
I/O slots	1x PCI-X 64-bit / 100MHz low profile and 1x PCIe x8, standard or low profile or 1x PCI-X 64-bit / 100MHz, low profile and 1x PCI-X 64-bit / 133 MHz, standard or low profile	1x PCIe x8, standard or low profile 170mm length; 1x PCIe x8 low profile 170mm length; 1x PCIe x4 internal for modular RAID controller only
Onboard controller	ATA 100 (IDE); 8 port SAS with RAID 0,1 (integrated mirroring also for odd numbered HD's for Windows and Linux); 2x 10/100/1000 Mbit/s Ethernet LAN; iRMC integrated Remote Management Controller incl. graphics IPMI 2.0	1x SATA for DVD; 2x for SATA RAID 0, 1 (for 2x 3.5-inch HDD's only); 2x 10/100/1000 Mbit/s Ethernet LAN; iRMC with 32MB attached memory (integrated Remote Management Controller incl. graphics IPMI 2.0)
Disk array controller	ZCR RAID 5 extension for onboard SAS/SATA RAID controller	SAS in internal PCIe slot either: 4 port SAS for internal HDDs with RAID 0,1 (integrated mirroring enhanced also for odd numbered HD's for Windows and Linux) or 8-port SAS for internal HDDs (2.5-inch) with RAID 0,1,10,5,50,6,60 (256 or 512 MB RAID cache and opt. BBU); external RAID
Power supply (output power)	1 (+1) x 650W hot-plug standard/redundant option	1 (+1) x 650W hot-plug standard/redundant option
Active Power	500W	530W
Weight (kg)	approx. 16 (depending on configuration)	approx. 16 (depending on configuration)
Dimensions (H x W x D) in mm, Rack height Units Rack mounting depth Rack cable depth	44 x 430 x 770 1 U 745 100	44 x 430 x 770 1 U 900 100
Standard	PRIMERGY ServerView Suite	PRIMERGY ServerView Suite
Operating systems support	Microsoft® Windows®, SUSE and Red Hat Linux	Microsoft® Windows®, SUSE and Red Hat Linux; VMware
Special features	high density housing, server management controller onboard; RemoteView opt.; iRMC advanced pack opt.; PDA; ASR&R, redundant PSU option	high density housing, server management controller onboard; RemoteView opt.; iRMC advanced pack opt.; PDA; ASR&R, redundant power supply option; hot-plug fans redundant opt.; ServerView Local Service Display (LSD) opt. or ServerView Local Service Panel (LSP) opt.



Model	PRIMERGY RX330 S1
Type	Dual socket AMD Opteron™ 2000 High Performance Rack Server(2U)
Chipset	BroadCom HT2100 plus HT1000
Systemboard	D2440-A100
Processor	1-2 AMD Opteron™ 2000 series; 2214 (2.2GHz) 95W, 2216 (2.4GHz) 95W, 2218 (2.6GHz) 95W, 2220 (2.8GHz) 2222 (3.0GHz) 95W Dual-Core / 2344 HE (1.70GHz) 55W / 2346 HE (1.80GHz) 55W / 2347 HE (1.90GHz) 55W / 2350 HE (2.00GHz) 55W / 2352 (2.10GHz) 75W / 2356 (2.30GHz) 75W Quad-Core; HpyerTransport™ Bus 1GHz
Bus	PCI-X 64-bit PCIe
Second level cache	2x 1MB (DC), 4x 512KB (QC); ECC protected
Third level cache	2MB (QC)
Memory	1 GB to 32 GB (16 GB per CPU), 2-way interleaved, ECC PC2-5300 DDR2-SDRAM, memory scrubbing, SDDC
Floppy disk drive	-
CD/DVD drive	DVD-RW or CD-RW/DVD option (IDE)
Hard disk drive (GB)	6x 160 / 250 / 500 / 750 GB / 1 TB SATA or 6x 73 / 146 / 300 / 450 GB SAS, hot-plug (max. 6 TB)
Media bays (inch)	1x 5.25/1.6-inch for tape, DVD-RW or CD-RW/DVD option
I/O slots	1x PCI-Express x8 low profile on Motherboard and 1x PCIe x8 Standard; 1x PCIe x4 Standard; 1x PCI 64/66MHz, ZCR or Riser option 1x PCIe x8 Standard; 1x PCI-X 64/66MHz; 1x PCI-x 64/66MHz, ZCR
Onboard controller	ATA 100 (IDE); 8 port SAS with RAID 0,1, (IME Integrated Mirroring Enhanced also for odd numbered HD's) (for Windows and Linux); RAID level 5 extension for onboard SAS/RAID; 2x 10/100/1000 Mbit/s Ethernet LAN + 1x for iRMC; iRMC integrated Remote Management Controller incl. graphics IPMI 2.0
Disk array controller	ZCR RAID 5 extension for onboard SAS/RAID controller
Power supply (output power)	1 (+1) x 625 W hot-plug standard/redundant option
Active Power	513W
Weight (kg)	approx. 18-25 (depending on configuration)
Dimensions (H x W x D) in mm, Rack height Units Rack mounting depth Rack cable depth	86 x 430 x 770 2 U 900 100
Standard	PRIMERGY ServerView Suite, RemoteView iRMC Advanced Pack opt.
Operating systems support	Microsoft® Windows®, SUSE and Red Hat Linux
Special features	19-inch Rack housing, Standard unit with 3 fans and control logic (easy change), redundant power supply option, server management controller onboard, RemoteView opt.; iRMC advanced pack opt.; PDA; ASR&R



Model	PRIMERGY RX300 S3	PRIMERGY RX300 S4
Type	Dual socket Rack Server(2U)	Dual socket Rack Server(2U)
Chipset	Intel® 5000P	Intel® 5000P
Systemboard	D2119	D2519
Processor	1-2 Dual- or Quad-Core Intel® Xeon® Processor ; 667/1066/1333 MHz FSB; 5050 (3.00GHz)/ 5060 (3.20GHz), 5080 (3.73GHz), 5110 (1.60GHz), 5120 (1.86GHz) / 5130 (2.00GHz), 5140 (2.33GHz), 5148 (2.33GHz), 5150 (2.66 GHz), 5160 (3.00GHz) (DC) / L5310 (2.33GHz), E5310 (1.60GHz), L5320 (1.86GHz), E5320 (1.86GHz), L5335 (2.00GHz), E5335 (2.00GHz), E5345(2.33GHz), X5355(2.66GHz), X5365 (3.00GHz) (QC)	1-2 Dual- or Quad-Core Intel® Xeon® Processor ; 1066MHz (E5205)/ 1333MHz FSB; E5205 (1.86GHz)65W, L5240 (3.00GHz) 50W, X5260 (3.33GHz) 80W, X5270 (3.50GHz) 80W (DC), L5410 (2.33GHz) 50W, L5420 (2.50GHz) 50W (QC), E5405 (2.00GHz) 80W, E5420 (2.50GHz) 80W, E5430 (2.66GHz) 80W, E5440 (2.83GHz) 80W, X5460 (3.16GHz) 120W, X5470 (3.33GHz) 120W (QC)
Bus	PCI-X 64-bit; PCIe	PCI-X 64-bit; PCIe
Second level cache	2 x 2MB / 4MB (51xx) / 2x 4 MB (x53xx); ECC protected	6MB (52xx) / 2x 6MB (54xx); ECC protected
Memory	1 GB to 32 GB, FullyBuffered DDR2 PC2-5300F, ECC, SDDC and memory mirroring option	1 GB to 48 GB, FullyBuffered DDR2 FBD667, PC2-5300F, ECC, SDDC and memory mirroring and hot-spare option
Floppy disk drive	3.5 /0.5-inch for opt. LocalView Display or FD	3.5 /0.5-inch for opt. LocalView Display or FD
CD/DVD drive	CD/DVD opt.	CD/DVD opt.
Hard disk drive (GB)	6x 36 / 73 / 146 / 300 GB SAS or 80 / 160 / 250 / 500 GB SATA or 12x 2.5-inch 36 / 73 / 146 GB SAS optional hot-plug (max. 3 TB)	6x 3.5-inch 36 / 73 / 146 / 300 / 450 GB SAS or 6x 3.5-inch 80 / 160 / 250 / 500 / 750 GB / 1 TB SATA or 12x 2.5-inch 36 / 73 / 146 GB SAS hot-plug (max. 6 TB)
Media bays (inch)	1x 5.25/0.5-inch (for IDE-CD or CD/DVD-ROM); 1x 3.5 (for floppy disk or LocalView display option)	1x 5.25/0.5-inch (for CD/DVD-ROM); 1x 3.5/0.5-inch (for CSS display, LocalView display or FD option); 1x 3.5/1.6-inch for backup occupies 2x 3.5
I/O slots	2x PCI-X 64-bit / 133MHz low profile, 3.3V; 1x PCIe x8 low profile; 2x PCIe x4 low profile hot-plug; risercard option: 1x PCI-X 64-bit/133 MHz, long, full height; 2x PCI-X 64-bit/133 MHz, short, full height	1x PCI-X 64-bit / 133MHz low profile, 3.3V; 5x PCIe x8, x4 wired low profile (from 4 PCIe slots each two wired x4 slots can be combined to one wired x8 slot)
Onboard controller	ATA 100 (IDE); 8 port SAS with integrated RAID 0,1, 1E (integrated mirroring enhanced also for odd numbered HD's for Windows and Linux); 2x 10/100/1000 Mbit/s Ethernet LAN; iRMC integrated Remote Management Controller incl. graphics IPMI 2.0	2-channel SATA for DVD and backup; 8 port SAS with integrated RAID 0,1, integrated mirroring enhanced also for odd numbered HD's for Windows and Linux or with RAID 0, 1, 10, 5, 50, 6, 60 (256 or 512 MB RAID cache and opt. BBU); 2x 10/100/1000 Mbit/s Ethernet LAN; iRMC S2 with 32MB attached memory (integrated Remote Management Controller incl. graphics IPMI 2.0)
Disk array controller	MegaRAID PCI-Express™ RoMB RAID level 0,1,10,5,50 extension option for onboard SAS RAID controller with iButton and 256MB or 256 MB iTBBU (Cache with integrated BBU). SAS and SATA are supported, no simultaneous peration of SAS and SATA	external RAID
Power supply (output power)	1 (+1) x 600 W hot-plug standard/redundant option	1 (+1) x 700 W hot-plug standard/redundant option
Active Power	681W	726W
Weight (kg)	approx. 25 (depending on configuration)	approx. 25 (depending on configuration)
Dimensions (H x W x D) in mm, Rack height Units Rack mounting depth Rack cable depth	85.9 x 482.6 x 785 2 U 745 100	85.9 x 482.6 x 785 2 U 745 100
Standard	PRIMERGY ServerView Suite	PRIMERGY ServerView Suite
Operating systems support	Microsoft® Windows®, SUSE and Red Hat Linux, VMware	Microsoft® Windows®, SUSE and Red Hat Linux; VMware
Special features	19-inch Rack housing, redundant fans option, redundant power supply option, server management controller onboard, RemoteView opt.; iRMC advanced pack opt.; PDA; ASR&R; RAID on Mother Board option, PCIe onboard for LAN and RAID	19-inch Rack housing, hot-plug fans redundant opt., redundant power supply option, server management controller onboard, RemoteView opt.; iRMC advanced pack opt.; PDA; ASR&R; RAID on Mother Board, onboard LAN; ServerView Local Service Display (LSD) opt. or ServerView Local Service (LSP) opt.



Model	PRIMERGY RX600 S4
Type	4-Socket Rack Server (4U)
Chipset	Intel® 7300
Systemboard	D2244
Processor	1-4 Intel® Xeon® MP Processor , 7000 series (Dual-Core 7200 series, Quad-Core 7300 series or 7400 series with 4C / 6C), 1066 MHz FSB; E7220 (2C) (2.93GHz) 80W / E7310 (4C) (1.60GHz) 80W / E7430 (4C) (2.13GHz) 90W / E7450 (6C) (2.40GHz) 90W / X7460 (6C) (2.66GHz) 130W
Bus	PCI-Express
Second level cache	2x 4MB (E7220, E7310) / 2x 3MB (E7430) / 3x 3MB (E7450, X7460), ECC protected
Third level cache	12MB (E74xx) / 16MB (X7460)
Memory	2 GB to 256 GB, 4-way interleaved, ECC DDR2-SDRAM FBD667, PC2-5300F; memory scrubbing, SDDC (Chipkill); hot-spare memory; memory mirroring support
	-
CD/DVD drive	CD-RW/DVD
Hard disk drive (GB)	max. 8x 36 / 73 / 146 GB SAS 2.5-inch hot-plug (max. 1.16 TB)
Media bays (inch)	1x 3.5/0.5-inch (for LocalView display) 1x 5.25/0.5-inch (for CD-RW/DVD); 1x 5.25/1.6-inch (for tape drive)
I/O slots	3x PCIe x4 (1x half length), 1x PCIe x4 (occupied with LSI1078 RAID controller); 4x PCIe x8 (hot-plug) (1x half length)
Onboard controller	SATA (ESB2E) for DVD; 8-port SAS RAID level 0, 1, 10, 5, 50, 6, 60 Controller in PCIe Slot with 512MB RAID cache, optional BBU; 4x 10/100/1000 Mbit/s Ethernet (TCP/IP acceleration); (PXE-Boot via LAN from PXE server); iSCSI Boot (also diskless) via onboard LAN; iRMC S2 with 32MB attached memory (integrated Remote Management Controller incl. graphics IPMI 2.0)
Disk array controller	further RAID controllers as option
Power supply (output power)	1 +1 x 1570 W redundant hot-plug as standard
Active Power	1150W
Weight (kg)	approx. 40 (depending on configuration)
Dimensions (H x W x D) in mm,	176 x 482.6 x 737
Rack height Units	4 U
Rack mounting depth	700
Rack cable depth	100
Standard	PRIMERGY ServerView Suite
Operating systems support	Microsoft® Windows®, SUSE and Red Hat Linux; VMware
Special features	19-inch Rack housing with ServerView Local Service Display (LSD) as standard, Diagnostic LEDs, iRMC Advanced Pack opt., RemoteView optional, redundant hot-plug fans and redundant hot-plug power supplies, PDA, ASR&R



Model	PRIMERGY BX600 S3 with Server Blades BX620 S4 Dual socket
Type	Blade Server
Rack installation kits	PRIMECENTER racks, PRIMERGY DataCenter racks, Fujitsu racks
Blade server chassis	7 U for 19-inch Racks
- Dimension (H x W x D) in mm	307 x 446 x 735 mm
- Weight (kg)	max. 128 kg (with all components)
- Mid-plane	Connection of the Server Blades with the infrastructure components via SerDes mid-plane
- Management blades	2x hot-plug (rear), redundant, each with 1x RS-232-C, 1x LAN (10/100 Mbits) RJ45
- KVM Switch	1 bay (rear) for optional KVM Switch
- Fans	2x hot-plug cages, each with 2 fans (redundant); additionally 3 fans per power supply
- Free slots (bays)	At the front: 10x for Server and Storage Blades; at the rear: 4x for Switch/Pass-Thru Blades; 1x for KVM Switch; 1x for SCSI module; 2x for additional hot-plug power supply
- External interfaces	1x RS-232-C, 1x LAN RJ45 per management blade; further interfaces depending on configuration with Switch and/or Pass-Thru blades
- Power supply	2 - 4 redundant hot-plug modules, each with 2100W (2 already installed)
- Active Power	2670W
- LAN Switch / Pass-Thru Blades, I/O Virtualization	GbE Switch Blades hot-plug: Up to 4x: Cisco CBS3040 with 10x 1Gbit/s downlink, 2x 10/100/1000 Base-T (RJ45) + 4x 10/100/1000 Base-T or 1000 Base-SX, 1x external console port (RJ45); SB9 with 10x 1Gbit/s downlink, 2 variants with 6x 1Gbit/s uplink (RJ45) or additional 2x 10Gbit/s uplink (1x XFP + 1x CX4 copper); Up to 2x: SB9F with 30x Gbit/s downlink, 12x 1Gbit/s uplink (RJ45); 10GbE Switch Blade with 10x 10Gbit/s downlink, 2x 10Gbit/s uplink (copper or fiber via X2 modules). Up to 4x: Pass Thru Blade 10x 1000 Base-T full duplex copper (RJ45). Up to 4x: Intelligent Blade Panel IBP 30/12 with 30x 1Gbit/s downlink, 12x 1Gbit/s uplink (RJ45) for I/O Virtualization.
- SAN Switch / Pass-Thru Blades / I/O Virtualization	FibreChannel Switch Blade hot-plug: Up to 2x: Brocade Silkworm 4016 D4 with 10x 4Gbit/s downlink, 6x 4Gbit/s uplink for GBIC/SFP (MMF) modules 4016. Access Gateway mode for Brocade Silkworm 4016 D4 with N-Port ID Virtualization support. FC Pass-Thru Blade with 10x 4Gbit/s downlink, 10x 4Gbit/s uplink for GBIC/SFP (MMF) modules.
- SX650 Storage Blade	The Storage extension unit can be installed in the BX600 S3 up to 5 times with 5 SAS or SATA hard disk drives each. A single hard disk drive can provide up to 146 GB capacity. The storage capacity of one BX620 S4 can be increased by up to 730 GB.
- NX650 Storage Blade	???
Server blades	Up to 10 hot-plug BX620 S4 Server Blades per system unit
- Processors	1-2 Dual- or Quad-Core Intel® Xeon® 5000 Processor sequence
- Clock rate / FSB	DC: 5148 (2.33GHz) 40W, 1,333 MHz FSB; E5205 (1.86GHz) 65W, 1,066 MHz FSB, L5240 (3.00GHz) 40W, 1,333 MHz FSB; X5260 (3.33GHz) 80W, X5270 (3.50GHz) 80W, 1,333 MHz FSB; QC: L5310 (1.60GHz) 50W, 1,066 MHz FSB; L5410 (2.33GHz) 50W; L5420 (2.50GHz) 50W; L5430 (2.66GHz) 50W; E5405 (2.00GHz) 80W; E5420 (2.50GHz) 80W; E5430 (2.66GHz) 80W; E5440 (2.83GHz) 80W; E5450 (3.00GHz) 80W, X5460 (3.16GHz) 120W, X5470 (3.33GHz) 120W (all 1333 MHz FSB)
- Second level cache	1x 4MB shared (51xx) / 2x 4MB shared w. 2 cores (53xx) / 1x 6MB shared (52xx) / 2x 6MB shared w. 2 cores (54xx)
- Third level cache	-
- Chip set	Intel 5000P
- Memory	1 GB - 64 GB FBD 667MHz (PC2-5300F) 4x2DIMM sockets, 2 banks with 2-channels each, 2 memory controllers, memory mirroring mode and SDDC
- Flash EPROM	BIOS update per USB floppy disk, USB CD-ROM or LAN (MMB)
- Interfaces	6x 1Gbit/s LAN port connection via midplane to Switch, Pass-Thru Blade or IBP; 1x VGA and 2x USB at front-side via special cable; connection to KVM Switch via midplane; For optional mezzanine cards: 2x 4Gbit/s FibreChannel, 2x 1Gbit/s or 2x 10Gbit/s Ethernet port connected via midplane to Switch (FC, GbE), Pass-Thru Blade (FC or 1GbE) or IBP (1GbE); Slot for pluggable storage module SATA RAID 1, SAS RAID 1 (optional with PCIe or PCI-X riser card slot), SAS/RAID (incl. iTBBU, 256 MB cache, RAID 0,1) or SAS/RAD module for connection of Storage Blade SX650
- Onboard controllers	2-channel SAS (RAID 1, opt. 0) or SATA (RAID 0 and 1) as pluggable storage module, extendable by PCIe or PCI-X riser card for front-side connection; 3x 2-channel Gbit Ethernet Controller with iSCSI/iBoot support depending on release; ATI ES 1000 graphic card, 16 MB; Baseboard Management Controller (BMC)
- Hard disk drives	2.5-inch SAS hot-plug (36/73/146 GB), 2.5-inch SATA hot-plug (60 GB)
Operating systems support	Microsoft® Windows®, SUSE and RedHat Linux, VMware



Model	PRIMERGY BX600 S3 with Server Blades BX630 S2 Dual socket
Type	Scalable Blade Server
Rack installation kits	PRIMECENTER racks, PRIMERGY DataCenter racks, Fujitsu racks
Blade server chassis	7 U for 19-inch Racks
- Dimension (H x W x D) in mm	307 x 446 x 735 mm
- Weight (kg)	max. 128 kg (with all components)
- Mid-plane	Connection of the Server Blades with the infrastructure components via SerDes mid-plane
- Management blades	2x hot-plug (rear), redundant, each with 1x RS-232-C, 1x LAN (10/100 Mbits) RJ45
- KVM Switch	1 bay (rear) for optional KVM Switch
- Fans	2x hot-plug cages, each with 2 fans (redundant); additionally 3 fans per power supply
- Free slots (bays)	At the front: 10x for Server Blades; at the rear: 4x for Switch/Pass-Thru Blades; 1x for KVM Switch; 1x for SCSI module; 2x for additional hot-plug power supply
- External interfaces	1x RS-232-C, 1x LAN RJ45 per management blade; further interfaces depending on configuration with Switch and/or Pass-Thru blades
- Power supply	2 - 4 redundant hot-plug modules, each with 2100W (2 already installed)
- Active Power	2670W
- LAN Switch / Pass-Thru Blades, I/O Virtualization	GbE Switch Blades hot-plug: Up to 4x: Cisco CBS3040 with 10x 1Gbit/s downlink, 2x 10/100/1000 Base-T (RJ45) + 4x 10/100/1000 Base-T or 1000 Base-SX, 1x external console port (RJ45); SB9 with 10x 1Gbit/s downlink, 2 variants with 6x 1Gbit/s uplink (RJ45) or additional 2x 10Gbit/s uplink (1x XFP + 1x CX4 copper); Up to 2x: SB9F with 30x Gbit/s downlink, 12x 1Gbit/s uplink (RJ45); 10GbE Switch Blade with 10x 10Gbit/s downlink, 2x 10Gbit/s uplink (copper or fiber via X2 modules). Up to 4x: Pass Thru Blade 10x 1000 Base-T full duplex copper (RJ45). Up to 4x: Intelligent Blade Panel IBP 30/12 with 30x 1Gbit/s downlink, 12x 1Gbit/s uplink (RJ45) for I/O Virtualization.
- SAN Switch / Pass-Thru Blades / I/O Virtualization	FibreChannel Switch Blade hot-plug: Up to 2x: Brocade Silksworm 4016 D4 with 10x 4Gbit/s downlink, 6x 4Gbit/s uplink for GBIC/SFP (MMF) modules 4016. Access Gateway mode for Brocade Silksworm 4016 D4 with N-Port ID Virtualization support. FC Pass-Thru Blade with 10x 4Gbit/s downlink, 10x 4Gbit/s uplink for GBIC/SFP (MMF) modules.
- SX650 Storage Blade	-
Server blades	Up to 10 hot-plug BX630 S2 Server Blades per system unit
- Processors	1-2 64-bit Quad-Core AMD Opteron™ (DP or MP) processors 2300 (DP) and 8300 (MP) series
- Clock rate / FSB	DC: AMD (DP) 2344HE (1.70GHz) 68W, 2346HE (1.80GHz) 68W, 2347HE (1.90GHz) 68W, 8350HE (2.0 GHz) 68W, 2350 (2.00GHz) 95W, 2352 (2.10GHz) 95W, 2354 (2.20GHz) 95W, 2356 (2.30GHz) 95W; (MP) 8347HE (1.90GHz) 68W, 8350 (2.00GHz) 95W, 8354 (2.20GHz) 95W, 8356 (2.30GHz) 95W
- Second level cache	4x 0.5 MB
- Third level cache	2 MB
- Chip set	ServerWorks HT2100, HT1000
- Memory	1 GB - 64 GB registered 2-way interleaved ECC DDR 667-SDRAM, memory scrubbing, SDDC (Chipkill) support
- Flash EPROM	BIOS update per USB floppy disk, USB CD-ROM or LAN
- Interfaces	4x Gbit LAN ports via midplane at GbE Switch blade or GbE Pass-Thru blade; 1x VGA and 2x USB at the front via special cable; connection to the KVM Switch via the midplane; opt. via midplane at FC or GbE Switch or Pass-Thru blade: 2x 4Gbit Fibre Channel or 2x 1Gbit Ethernet port
- Onboard controllers	Configurable 2x active SAS channels (LSI1064E) with RAID levels 0 and 1 (hot-replace function) for 2x SAS HDD; 2 LAN controllers each with 2x 1 Gbit/s Ethernet dual port; Integrated Remote Management Controller (iRMC) incl. Graphics
- Hard disk drives	1-2 x 2.5-inch SAS hot-plug (36/73/146 GB)
Operating systems support	Microsoft® Windows®, SUSE and RedHat Linux, VMware



Model	PRIMERGY BX600 S3 with Server Blades BX630 S2 Quad socket
Type	Scalable Blade Server
Rack installation kits	PRIMECENTER racks, PRIMERGY DataCenter racks, Fujitsu racks
Blade server chassis	7 U for 19-inch Racks
- Dimension (H x W x D) in mm	307 x 446 x 735 mm
- Weight (kg)	max. 128 kg (with all components)
- Mid-plane	Connection of the Server Blades with the infrastructure components via SerDes mid-plane
- Management blades	2x hot-plug (rear), redundant, each with 1x RS-232-C, 1x LAN (10/100 Mbits) RJ45
- KVM Switch	1 bay (rear) for optional KVM Switch
- Fans	2x hot-plug cages, each with 2 fans (redundant); additionally 3 fans per power supply
- Free slots (bays)	At the front: 10x for Server Blades; at the rear: 4x for Switch/Pass-Thru Blades; 1x for KVM Switch; 1x for SCSI module; 2x for additional hot-plug power supply
- External interfaces	1x RS-232-C, 1x LAN RJ45 per management blade; further interfaces depending on configuration with Switch and/or Pass-Thru blades
- Power supply	2 - 4 redundant hot-plug modules, each with 2100W (2 already installed)
- Active Power	2670W
- LAN Switch / Pass-Thru Blades, I/O Virtualization	GbE Switch Blades hot-plug: Up to 4x: Cisco CBS3040 with 10x 1Gbit/s downlink, 2x 10/100/1000 Base-T (RJ45) + 4x 10/100/1000 Base-T or 1000 Base-SX, 1x external console port (RJ45); SB9 with 10x 1Gbit/s downlink, 2 variants with 6x 1Gbit/s uplink (RJ45) or additional 2x 10Gbit/s uplink (1x XFP + 1x CX4 copper); Up to 2x: SB9F with 30x Gbit/s downlink, 12x 1Gbit/s uplink (RJ45); 10GbE Switch Blade with 10x 10Gbit/s downlink, 2x 10Gbit/s uplink (copper or fiber via X2 modules). Up to 4x: Pass Thru Blade 10x 1000 Base-T full duplex copper (RJ45). Up to 4x: Intelligent Blade Panel IBP 30/12 with 30x 1Gbit/s downlink, 12x 1Gbit/s uplink (RJ45) for I/O Virtualization.
- SAN Switch / Pass-Thru Blades / I/O Virtualization	FibreChannel Switch Blade hot-plug: Up to 2x: Brocade Silkworm 4016 D4 with 10x 4Gbit/s downlink, 6x 4Gbit/s uplink for GBIC/SFP (MMF) modules 4016. Access Gateway mode for Brocade Silkworm 4016 D4 with N-Port ID Virtualization support. FC Pass-Thru Blade with 10x 4Gbit/s downlink, 10x 4Gbit/s uplink for GBIC/SFP (MMF) modules.
- SX650 Storage Blade	-
Server blades	Up to 5 hot-plug 4-way BX630 S2 Server Blades per system unit
- Processors	4x 64-bit Quad-Core AMD Opteron (MP) processors 8300 series
- Clock rate / FSB	QC: AMD (MP) 8347HE (1.90GHz) 95W, 8350HE (2.0 GHz) 68W, 8350 (2.00GHz) 95W, 8354 (2.20GHz) 95W, 8356 (2.30GHz) 95W
- Second level cache	4x 0.5MB
- Third level cache	2 MB
- Chip set	ServerWorks HT2100, HT1000
- Memory	1 GB - 128 GB registered 2-way interleaved ECC DDR 667-SDRAM, memory scrubbing, SDDC (Chipkill) support
- Flash EPROM	BIOS update per USB floppy disk, USB CD-ROM or LAN
- Interfaces	8x Gbit LAN ports via midplane at GbE Switch or GbE Pass-Thru blade; 1x VGA and 2x USB at the front via special cable; connection to the KVM Switch via the midplane; opt. via midplane at FC or GbE Switch or Pass-Thru blade 4x 4Gbit Fibre Channel or 4x Gbit Ethernet port
- Onboard controllers	Configurable 4x active SAS channels (LSI1064E) with RAID levels 0 and 1 (hot-replace function) for 4x SAS HDD; 4x 1 Gbit/s Ethernet dual port; Integrated Remote Management Controller (iRMC) incl. Graphics
- Hard disk drives	1-4 x 2.5-inch SAS hot-plug (36/73/146 GB)
Operating systems support	Microsoft® Windows®, SUSE and RedHat Linux, VMware



Model	PRIMERGY BX600 S3 with NAS Blades NX650
Type	Scalable Blade Server
Rack installation kits	PRIMECENTER racks, PRIMERGY DataCenter racks, Fujitsu racks
Blade server chassis	7 U for 19-inch Racks
- Dimension (H x W x D) in mm	307 x 446 x 735 mm
- Weight (kg)	max. 128 kg (with all components)
- Mid-plane	Connection of the Server/NAS Blades with the infrastructure components via SerDes mid-plane components via SerDes mid-plane
- Management blades	2x hot-plug (rear), redundant, each with 1x RS-232-C, 1x LAN (10/100 Mbits) RJ45
- KVM switch	1 bay (rear) for optional KVM Switch
- Fans	2x hot-plug cages, each with 2 fans (redundant); additionally 3 fans per power supply (10/100 Mbits) RJ45
- Free slots (bays)	At the front: 10x for Server/NAS Blades; at the rear: 4x for Switch/Pass-Thru Blades; 1x for KVM Switch; 1x for SCSI module; 2x for additional hot-plug power supply
- External interfaces	1x RS-232-C, 1x LAN RJ45 per management blade; further interfaces depending on configuration with Switch and/or Pass-Thru blades
- Power supply	2 - 4 redundant hot-plug modules, each with 2100W (2 already installed)
- Active Power	2670W
- LAN Switch / Pass-Thru Blades, I/O Virtualization	GbE Switch Blades hot-plug: Up to 4x: Cisco CBS3040 with 10x 1Gbit/s downlink, 2x 10/100/1000 Base-T (RJ45) + 4x 10/100/1000 Base-T or 1000 Base-SX, 1x external console port (RJ45); SB9 with 10x 1Gbit/s downlink, 2 variants with 6x 1Gbit/s uplink (RJ45) or additional 2x 10Gbit/s uplink (1x XFP + 1x CX4 copper); Up to 2x: SB9F with 30x Gbit/s downlink, 12x 1Gbit/s uplink (RJ45); 10GbE Switch Blade with 10x 10Gbit/s downlink, 2x 10Gbit/s uplink (copper or fiber via X2 modules). Up to 4x: Pass Thru Blade 10x 1000 Base-T full duplex copper (RJ45). Up to 4x: Intelligent Blade Panel IBP 30/12 with 30x 1Gbit/s downlink, 12x 1Gbit/s uplink (RJ45) for I/O Virtualization.
- SAN Switch / Pass-Thru Blades / I/O Virtualization	FibreChannel Switch Blade hot-plug: Up to 2x: Brocade SilkWorm 4016 D4 with 10x 4Gbit/s downlink, 6x 4Gbit/s uplink for GBIC/SFP (MMF) modules 4016. Access Gateway mode for Brocade SilkWorm 4016 D4 with N-Port ID Virtualization support. FC Pass-Thru Blade with 10x 4Gbit/s downlink, 10x 4Gbit/s uplink for GBIC/SFP (MMF) modules.
- Storage Model	PRIMERGY Network Attached Storage (NAS) Blade NX650
Type	File and Print server, network wide shared usage; optional iSCSI target functionality
Design	Two slot characteristic for integration in the BX600 S3 system unit
Number per BX600 S3	Up to 5
- Dimension (H x W x D) in mm	286 x 86 x 470 (520 with connectors and handles)
- Weight (kg)	max. 11.8 kg
- Network interface	Up to 6x on board Gigabit Ethernet port via mid-plane at GbE Switch or Pass-Thru Blades
- No. of hard disk drives	3 – 5
- Type of hard disk drives	2.5 inch SAS
- Capacity of hard disk drive	146 Gbyte
Operating systems support	Microsoft® Windows Storage Server 2003 R2



Model	PRIMERGY BladeFrame BF200	PRIMERGY BladeFrame BF400 S2
Type	FlexFrame Infrastructure	FlexFrame Infrastructure
BladeFrame Chassis	for PRIMECENTER racks and compatible industry 19-inch standard racks	Cabinet
- Dimension (H x W x D) in cm	57.8 x 44.7 x 78,7 (13 U);	210 x 61 x 89
- Weight (kg)	max.127 (fully configured)	479 (fully configured with 2-socket pBlades) 599 (fully configured with 4-socket pBlades)
- Power Supply	1 Power Input Module (Network Power Switch as redundant option)	4 Power Input Modules (PIM) / 4 Power Domains
Processing Blade Architecture	max. 6 per PRIMERGY BF200	max. 24 per PRIMERGY BF400 S2
- Processing Blades	BFi20 S4/2x Intel® Xeon™ E5410 2.33GHz, 8GB; BFi20 S4/2x Intel® Xeon™ E5450 3.0GHz, 16GB; BFi20 S4/2x Intel® Xeon™ E5450 3.0GHz, 32GB; BFa20 S2/2x AMD Opteron™ 2220SE 2.8GHz, 16GB; BFi40 S4/4x Intel® Xeon™ X7350 2.93GHz, 32GB; BFi40 S4/4x Intel® Xeon™ X7350 2.93GHz, 64GB; BFa40 S2/4x AMD Opteron™ 8220SE 2.8GHz, 32GB	BFi20 S4/2x Intel® Xeon™ E5410 2.33GHz, 8GB; BFi20 S4/2x Intel® Xeon™ E5450 3.0GHz, 16GB; BFi20 S4/2x Intel® Xeon™ E5450 3.0GHz, 32GB; BFa20 S2/2x AMD Opteron™ 2220SE 2.8GHz, 16GB; BFi40 S4/4x Intel® Xeon™ X7350 2.93GHz, 32GB; BFi40 S4/4x Intel® Xeon™ X7350 2.93GHz, 64GB; BFa40 S2/4x AMD Opteron™ 8220SE 2.8GHz, 32GB
Control Blade Architecture		
- Number of control blades	2 (redundant) per BF200	2 (redundant) per BF400 S2
- I/O interface	4 ports Gbit Ethernet, 4 ports 2 Gbits/s Fibre Channel	8 ports Gbit Ethernet; 8 ports 2 Gbits/s Fibre Channel
- Management interface port	10/100 BaseT Ethernet (copper RJ45)	10/100/1000 BaseT Ethernet (copper RJ45)
- Accessible drives	DVD drive 40X (1 per Control Blade)	DVD drive 40X (1 per Control Blade)
Switch Blade Architecture		
- Number of switch blades	a component of the control blade	2 (redundant) per BladeFrame
BladePlane / Mid-plane	BladePlane BF200	BladePlane BF400 S2
- Data transfer rate	2.5 Gbits/s point-to-point switched fabric	2.5 Gbits/s point-to-point switched fabric
Management Software		
- Resource management	PAN Manager	PAN Manager
- Virtual machine management	vBlade software VBXS	vBlade software VBXS
Operating systems		
- Native operating systems	Red Hat Enterprise Linux; SUSE Linux Enterprise Server; Microsoft Windows Server 2003; Solaris 10; VMware ESX	Red Hat Enterprise Linux; SUSE Linux Enterprise Server; Microsoft Windows Server 2003; Solaris 10; VMware ESX
- Guest operating systems	Red Hat Enterprise Linux; SUSE Linux Enterprise Server; Microsoft Windows	Red Hat Linux; SUSE Linux; Microsoft Windows



Model	FibreCAT TXF	FibreCAT SX40
Type	Server attached rack backup subsystem	PRIMERGY attached storage subsystem
Housing	Rack	Rack
Drive bays	4 x 5,25 "with 1.6" height (HH)per I/O Modul (SAS, USB or SCSI) for accessible drives	12 x hot-plug for SAS hard disks
Max. capacity	-	9 Tbyte
1-inch drives	none	12 x 73 / 146 / 300 GB, 10,000 and 15,000 rpm SAS; 250 / 500 / 750 GB / 1TB 7,200 rpm SATA hard disks; mix between SAS and SATA is possible
1.6-inch drives	DDS Generation 5 LW 36 / 72 GB; DDS Generation 6 LW 80 / 160 GB; LTO Ultrium2 HH LW 200 / 400 GB; LTO Ultrium3 HH LW 400 / 800 GB; LTO Ultrium4 HH LW 800 / 1600 GB; RDX Drive 80-160 GB	none
3.2-inch drives	none	none
Support	4 x Ultra 160/320 UHD SCSI Ports or 4 x SFF8088 SAS Ports or 4x USB (B) Ports	SAS x4 host interconnect (wide port)
Fibre channel RAID controller	SCSI HBA (SAS 10/2008) or Onboard Controller (USB); server based	SAS RAID Controller; server based
Power supply (output power)	230-260W	1 (+1) hot-plug/ redundant, 750 W
Fans	1x PSU; 1x additional	2x 2 redundant / integrated in power supply
Management display	Six status LEDs; front	Four front status LEDs
Management Protocol	Remote Power Management via I/O interface	SES over SAS ports (ServerView/ServerView RAID)
Pre-failure warning and warranty on drives	no	yes
Service processor	no	no
Dimensions (H x W x D) in mm, Rack height units Rack mounting depth in mm Rack cable depth in mm	131.4 x 482.6 x 704 mm 3 U 700 100	88 x 480 x 582 (Rack) 2 U 563
Weight (kg)	15.5 (without drives; depending on configuration)	approx. 30 (depending on configuration)
Special features	The FibreCAT TXF is an innovative, easy-to-use, flexible and economical rack enclosure for backup devices. With its wide range of supported backup devices with SCSI, SAS (10/2008) or USB interfaces, it is best suited to consolidate data backups for rack-based servers in PRIMECENTER and third-party racks.	The FibreCAT SX40 is the next generation storage enclosure for PRIMERGY Servers. A cost-effective JBOD (Just a Bunch of Diks) for high performance and high reliable SAS hard disks or cost efficient, max. capacity SATA hard disks.



Model	PRIMECENTER SME Rack, 24 U	PRIMECENTER SME Rack, 42 U
Type	Rack in 24 height units	Rack in 42 height units
Cable management and service	Optimized cable routing for short cable lengths, with variable cable inlet from outside	Optimized cable routing for short cable lengths, with variable cable inlet from outside
Dimensions (H x W x D) in mm (Rack height units)	1220 x 700 x 1000	1950 x 700 x 1000
Weight (kg)	Empty approx. 40	Empty approx. 70
Max. load	-	-
Special features	Less price standard SME Rack, optimized for mounting Server, Storage products or other vendor's Server and components. Lockable doors. Delivery ex stock, no factory installation. Load capacity max. 600 kg.	Less price standard SME Rack, optimized for mounting Server, Storage products or other vendor's Server and components. Lockable doors. Delivery ex stock, no factory installation. Load capacity max. 600 kg.



Model	PRIMECENTER Rack, 12 U	PRIMECENTER Rack, 24 U	PRIMECENTER Rack, 38 U	PRIMECENTER Rack, 46 U
Type	Rack in 12 height units plus 1 x 2 height units vertically (up to 300 mm including cable space)	Rack in 24 height units plus 2 x 2 height units vertically (up to 300 mm including cable space)	Rack in 38 height units plus 3 x 2 height units vertically (up to 300 mm including cable space)	Rack in 46 height units plus 3 x 2 height units vertically (up to 300 mm including cable space)
Cable management and service	Optimized cable routing for short cable lengths, with variable cable inlet from outside	Optimized cable routing for short cable lengths, with variable cable inlet from outside	Optimized cable routing for short cable lengths, with variable cable inlet from outside	Optimized cable routing for short cable lengths, with variable cable inlet from outside
Dimensions (H x W x D) in mm (Rack height units)	670 x 700 x 1000	1220 x 700 x 1000	1825 x 700 x 1000 / 1100	2220 x 700 x 1000
Weight (kg)	Empty approx. 82	Empty approx. 110	Empty approx. 150 / 152	Empty approx. 170
Max. load	10000 N stationary 10000 N dynamic	10000 N stationary 10000 N dynamic	10000 N stationary 10000 N dynamic	10000 N stationary 10000 N dynamic
Special features	Complete extraction thanks to telescopic rails for servers with hot-replace components. Tool less dismantled doors. Lockable doors. Load capacity max. 1000 kg. To line up of Racks possible.	Complete extraction thanks to telescopic rails for servers with hot-replace components. Tool less dismantled doors. Lockable doors. Load capacity max. 1000 kg. To line up of Racks possible.	Complete extraction thanks to telescopic rails for servers with hot-replace components. Tool less dismantled doors. Lockable doors. Load capacity max. 1000 kg. To line up of Racks possible.	Complete extraction thanks to telescopic rails for servers with hot-replace components. Tool less dismantled doors. Lockable doors. Load capacity max. 1000 kg. To line up of Racks possible.



Model	PRIMECENTER LC (Liquid Cooled) Rack, 38 U (31 U usable)	PRIMECENTER LC (Liquid Cooled) Rack, 46 U (40 U usable)
Type	Rack in 38 height units plus 1 x 2 height units vertically (up to 300 mm including cable space)	Rack in 46 height units plus 2 x 2 height units vertically (up to 300 mm including cable space)
Cable management and service	Optimized cable routing for short cable lengths, with variable cable inlet from outside	Optimized cable routing for short cable lengths, with variable cable inlet from outside
Dimensions (H x W x D) in mm (Rack height units)	1825 x 700 x 1200	2220 x 700 x 1200
Weight (kg)	Empty approx.260	Empty approx.290
Max. load	10000 N stationary 10000 N dynamic	10000 N stationary 10000 N dynamic
Special features	Complete extraction thanks to telescopic rails for servers with hot-replace components. Lockable doors. Cool-safe™ for server (water-cooled). Bypass control (3-way valve)regulates cold water flow according to heat requirements. Dust-protection: dust deposits are permissible but the amount must not impair the function of the device, Water drops falling up to 15 degree form the vertical (IP52) and very quit operation (55 dB (A)).	Complete extraction thanks to telescopic rails for servers with hot-replace components. Lockable doors. Cool-safe™ for server (water-cooled). Bypass control (3-way valve)regulates cold water flow according to heat requirements. Dust-protection: dust deposits are permissible but the amount must not impair the function of the device, Water drops falling up to 15 degree form the vertical (IP52) and very quit operation (55 dB (A)).