

## IBM BladeCenter JS21/JS22/JS12 Blade Server I/O Facts and Features

Terms: A = Available for Order, M = Migrateable -- the device can be installed,  
-- = Not Available, X = Operating System support

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IBM BladeCenter® JS21/JS22/JS12 Blade Server Features

IBM BladeCenter Chassis Features

Feature Code	Description	Server Blade		Server	I/O Facts and Features						i5/OS® V6R1 (only with JS22/12)	
		JS21	JS22		RedHat		Novell		IBM			
		7988-J21	7998-61X		7998-60x	RHEL 4.x	RHEL5 .x	SLES 9	SLES1 0	AIX® 5.2		AIX 5.3
<b>Fibre Channel</b>												
8255	Emulex 4 GB FIBRE CHANNEL DUAL PORT EXP CD, SFF/PCIX	A	---	---	X	X	X	X	---	---	---	---
8248	QLOGIC 4 GB FIBRE CHANNEL DUAL PORT EXP CD, CFF/PCIX	A	A	A	X	X	X	X	X	X	X	---
8251	Emulex 4 GB FIBRE CHANNEL DUAL PORT EXP CD, CFF/PCIX	---	A	A	X	X	X	X	X	X	X	---
<b>SAS Adapter</b>												
8250	SAS Dual Port EXP CD, CFF/PCIX	A	A	A	X	X	X	X	---	X	X	X
<b>LAN</b>												
8249	1 GB E'NET DUAL PORT EXP CD, CFF/PCIX	A	A	A	X	X	X	X	X	X	X	---
8238	ISCSI DUAL PORT EXP CD, SFF/PCIX	A	A	A	X	X	X	X	X	X	X	---
<b>Combo Adapters</b>												
8252	QLOGIC COMBO 4 GB FIBRE CHANNEL /1 GB E'NET EXP CD, CFF/PCIE	A	A	A	X	X	X	X	---	X	X	---
<b>InfiniBand®</b>												
8256	4X IB DUAL PORT EXP CD, SFF/PCIE, (CISCO)	A	A	A	X	X	X	X	---	X	X	---
8297	4X IB DDR EXP CD (CISCO)	---	A	A	---	---	---	X	---	---	---	---
8298	4X IB DDR EXP CD (Voltaire)	---	A	A	---	---	---	X	---	---	---	---
8258	4X IB DUAL PORT DDR EXP CD, CFF/PCIE	---	A	A	---	---	---	X	---	---	---	---
<b>Myrinet</b>												
8247	MYRICOM MYRINET CLUSTER EXP CD, LFF/PCIX	M	---	---	X	X	X	X	X	X	X	---
<b>DISK</b>												
8254	146GB 10K RPM SFF SAS HDD	A	---	---	X	X	X	X	X	X	X	---
8253	73GB 10K RPM SFF SAS HDD	A	---	---	X	X	X	X	X	X	X	---
8236	146GB 10K RPM SFF SAS HDD	---	A	A	X	X	X	X	X	X	X	X
8237	73GB 10K RPM SFF SAS HDD	---	A	A	X	X	X	X	X	X	X	X
<b>Memory</b>												
8385	1 GB (2 x 512 MB) MEMORY, 533MHZ RDIMMS	A	---	---	X	X	X	X	X	X	X	---
8386	2 GB (2 x 1 GB) MEMORY, 533MHZ RDIMMS	A	---	---	X	X	X	X	X	X	X	---
8387	4 GB (2 x 2 GB) MEMORY, 533MHZ RDIMMS	A	---	---	X	X	X	X	X	X	X	---
8388	8 GB (2 x 4 GB) MEMORY, 533MHZ RDIMMS	A	---	---	X	X	X	X	X	X	X	---
8235	16 GB (2 x 8 GB) MEMORY, 533MHZ RDIMMS	---	A	---	X	X	X	X	X	X	X	X
8232	2 GB (2 x 1 GB) MEMORY, 667MHZ RDIMMS	---	A	---	X	X	X	X	X	X	X	X
8233	4 GB (2 x 2 GB) MEMORY, 667MHZ RDIMMS	---	A	---	X	X	X	X	X	X	X	X
8234	8 GB (2 x 4 GB) MEMORY, 667MHZ RDIMMS	---	A	---	X	X	X	X	X	X	X	X
8220	2 GB (2 x 1 GB) MEMORY, 667MHZ RDIMMS	---	---	A	X	X	X	X	X	X	X	X
8229	4 GB (2 x 2 GB) MEMORY, 667MHZ RDIMMS	---	---	A	X	X	X	X	X	X	X	X
8239	8 GB (2 x 4 GB) MEMORY, 667MHZ RDIMMS	---	---	A	X	X	X	X	X	X	X	X
8245	16 GB (2 x 8 GB) MEMORY, 533MHZ RDIMMS	---	---	A	X	X	X	X	X	X	X	X

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IBM BladeCenter JSxx Blade Server I/O Facts and Features

Feature Code	Description	7989-BCH	7779-BCS
	<b>BladeCenter Model</b>	<b>H</b>	<b>S</b>
	<b>JS Blades Supported</b>		
	7988-J21 (JS21)	A	A
	7998-61X (JS22)	A	A
	7998-61X (JS22 with i5/OS)	A	---
	7998-60x (JS12)	A	A
	<b>DASD Module</b>		
4545	6-Disk Storage Module	---	A
	<b>SAS DASD</b>		
3747	300GB SAS Hot-Swap HDD for use with 4545 6-Disk Storage Module	---	A
3748	73GB SAS Hot-Swap HDD for use with 4545 6-Disk Storage Module	---	A
3749	146GB SAS Hot-Swap HDD for use with 4545 6-Disk Storage Module	---	A
	<b>DVD ROM</b>		
4156	CD-RW/DVD-ROM Drive	---	A
	<b>Fibre Switch</b>		
3202	QLOGIC 4GB 20-PORT FIBRE CHANNEL SWITCH MODULE	A	---
3203	QLOGIC 4GB 10-PORT FIBRE CHANNEL SWITCH MODULE	A	---
3241	CISCO 4GB FIBRE CHANNEL 10-PORT SWITCH MODULE	A	A
3242	CISCO 4GB FIBRE CHANNEL 20-PORT SWITCH MODULE	A	---
3243	QLOGIC 4GB FIBRE CHANNEL 10-PORT FULL FABRIC SW MOD	A	A
3244	QLOGIC 4GB FIBRE CHANNEL 20-PORT FULL FABRIC SW MOD	A	---
3245	QLOGIC 4GB FIBRE CHANNEL 20-PORT PASSTHRU SW MOD	A	A
3218	OPTICAL PASS-THRU MODULE	A	A
4542	CISCO SYSTEMS 4GB SHORT-WAVE LENGTH 4-PACK SFP MODULES	---	A
4546	BLADECENTER S SERIAL PASS-THRU MODULE	---	A
	<b>SAS Switch</b>		
3267	SAS SWITCH MODULE, 4 EXT 4-CH PORTS	A	A
	<b>LAN Switch</b>		
3214	CISCO SYSTEMS FIBER INTELLIGENT GIGABIT ENET SWITCH MODULE	A	---
3215	CISCO SYSTEMS INTELLIGENT GIGABIT ENET SWITCH MODULE	A	---
3219	COPPER PASS-THRU MODULE	A	A
3210	NORTEL 10GB UPLINK ETHERNET SWITCH MODULE	A	A
3212	NORTEL NTWKS L2/L3 COPPER GIGABIT ENET SWITCH MODULE	A	A
3213	NORTEL NTWKS L2/L3 FIBER GIGABIT ENET SWITCH MODULE	A	A
3211	NORTEL NTWKS LAYER 2-7 GIGABIT ENET SWITCH MODULE	A	---
3220	SERVER CONNECTIVITY MODULE	A	A
	<b>Storage Switch</b>		
3207	BROCADE 4GB 10-PORT SAN SWITCH MODULE	A	A
3206	BROCADE 4GB 20-PORT SAN SWITCH MODULE	A	---

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Feature Code	Description	7989-BCH	7779-BCS
<b>Misc Switch</b>			
3217	CISCO SYSTEMS 4X INFINIBAND SWITCH MODULE	A	---
3239	MULTI-SWITCH I/F MODULE ENCLOSURE, LEGACY SWITCHES	A	---
3216	InfiniBand PASS THRU MODULE	A	---
<b>Systems Management</b>			
3201	REDUNDANT KVM/ADVANCED MANAGEMENT MODULE	A	---
<b>Transceiver</b>			
3236	PLUGGABLE OPTICAL TRANSCEIVER, SHORT WAVE	A	---
3238	PLUGGABLE OPTICAL TRANSCEIVER, 4GB SHORT WAVE	A	A
3262	PLUGGABLE OPTICAL TRANSCEIVER, CISCO 4GB LONG WAVE	A	A
3261	PLUGGABLE OPTICAL TRANSCEIVER, CISCO 4GB SHORT WAVE	A	A
3237	PLUGGABLE OPTICAL TRANSCEIVER, LONG WAVE	A	---
3232	TRANSCEIVER, 10GBE 1310NM FIBER XFP	A	A
3231	TRANSCEIVER, 10GBE 850NM FIBER XFP	A	A
<b>CABLES</b>			
<b>LAN Cables</b>			
3223	5-DROP, COPPER PASS-THRU MODULE (3.1M)	A	A
4540	CX4 1.5 METER	---	A
4541	CX4 3.0 METER	---	A
<b>Optical Cables</b>			
3222	LC, 4-DROP, OPTICAL PASS-THRU MODULE (1.5M)	A	A
3221	SC, 4-DROP, OPTICAL PASS-THRU MODULE (1.5M)	A	A
<b>InfiniBand Cables</b>			
3224	12X InfiniBand, (4M)	A	---
3225	12X InfiniBand, (8M)	A	---
3227	4X InfiniBand, (10M)	A	---
3228	InfiniBand, (1)12X TO (3)4X, (11M)	A	---
3226	InfiniBand, (1)12X TO (3)4X, (8M)	A	---
3246	InfiniBand DDR COPPER, 3M	A	---
3247	InfiniBand DDR COPPER, 8M	A	---
3233	4X InfiniBand, (3M)	A	---
3234	InfiniBand, (1)12X TO (3)4X, (3M)	A	---
<b>SERIAL Cable</b>			
3235	SERIAL PORT BREAK-OUT CABLE	A	---
<b>Graphics Cable</b>			
4242	15P TO 15P, 6' EXTENDER CABLE FOR DISPLAYS	A	---
<b>Keyboard Cable</b>			
4256	EXTENDER CABLE FOR USB KEYBOARDS/DISKETTES, 2M	A	---
<b>SAS Cable</b>			

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Feature Code	Description	7989-BCH	7779-BCS
3260	CABLE, SAS 4-CH, 1M	A	A
3266	CABLE, SAS 4-CH, 3M	A	A
<b>Power Module</b>			
3200	ADDTNL POWER MODULE, 2900W (200-240V)	A	---
4548	IBM BLADECENTER S 950W/1450W AUTO-SENSING POWER SUPPLY	---	A
<b>Media</b>			
2591	DISKETTE DRIVE, USB, EXTERNAL, 1.44MB (JASPER)	A	---
<b>Line Cord</b>			
3733	LINE CORD 2.5M, 15A/208V, C19 TO NEMA 6-15P (US)	---	A
3744	LINE CORD 2M, 16A/100-250V, C19 TO IEC 320-C20 RACK POWER CABLE	---	A
4549	LINE CORD 2.5M, 220-240V, C19 TO GB 2099.1 (CHINA)	---	A
4550	LINE CORD 2.5M, 220-240V, C19 TO BS 1363/A (UK)	---	A
4551	LINE CORD 2.5M, 220-240V, C19 TO CEE7-VII (EUROPEAN)	---	A
4552	LINE CORD 2.5M, 220-240V, C19 TO SABS 164 (SOUTH AFRICA)	---	A
4553	LINE CORD 2.5M, 220-240V, C19 TO AS/NZ 3112 (AUS/NZ)	---	A
4554	LINE CORD 2.5M, 220-240V, C19 TO CEI 23-16 (ITALY)	---	A
4555	LINE CORD 2.5M, 220-240V, C19 TO SI 32 (ISRAEL)	---	A
4556	LINE CORD 2.5M, 16A/230V, C19 TO IEC 309-P+N+G (DEN/SWS)	---	A
4557	LINE CORD 2.5M, 220-240V, C19 TO IS6538 (INDIA)	---	A
4558	LINE CORD 2.5M, 16A/100-240V, C19 TO IEC 320-C20 RACK POWER CABLE	---	A
4559	LINE CORD 4.3M, 16A/120V, C19 TO NEMA L5-20P (US)	---	A
4560	LINE CORD 4.3M, 16A/208V, C19 TO NEMA L6-20P (US)	---	A
4561	LINE CORD 4.3M, 16A/230V, C19 TO CEE7-VII (EUROPE)	---	A
4562	LINE CORD 4.3M, 16A/230V, C19 TO SABS 164 (SOUTH AFRICA)	---	A
4563	LINE CORD 4.3M, 13A/230V, C19 TO BS 1363/A (UK)	---	A
4564	LINE CORD 4.3M, 16A/230V, C19 TO CEI 23-16 (ITALY)	---	A
4565	LINE CORD 4.3M, 16A/230V, C19 TO SI 32 (ISRAEL)	---	A
4566	LINE CORD 4.3M, 16A/230V, C19 TO IEC 309-P+N+G (DEN/SWS)	---	A
4567	LINE CORD 4.3M, 16A/220V, C19 TO IRAM 2073 (ARGENTINA)	---	A
4568	LINE CORD 4.3M, 16A/240V, C19 TO IS 6538 (INDIA)	---	A
4569	LINE CORD 4.3M, 15A/125V, C19 TO NBR 6147 (BRAZIL)	---	A
4570	LINE CORD 4.3M, 16A/220V, C19 TO GB 2099.1 (CHINA)	---	A
4571	LINE CORD 4.3M, 15A/230V, C19 TO AS/NZS 3112 (AUS/NZ)	---	A
4572	LINE CORD 4.3M, 16A/125V, C19 TO CNS 10917-3 (TAIWAN)	---	A
4573	LINE CORD 4.3M, 16A/250V, C19 TO CNS 10917-3 (TAIWAN)	---	A
4574	LINE CORD 4.3M, 15A/250V, C19 TO KSC 8305 (S. KOREA)	---	A
4575	LINE CORD 4.3M, 15A/100V, C19 TO JIS C-8303 (JAPAN)	---	A
4576	LINE CORD 4.3M, 15A/200V, C19 TO JIS C-8303 (JAPAN)	---	A
4577	LINE CORD 1.8M, 15A/120V, C19 TO NEMA 5-15P (US)	---	A
4578	LINE CORD 2.5M, 15A/120V, C19 TO NEMA 5-15P (US)	---	A
4579	LINE CORD 2.5M, 16A/120V, C19 TO NEMA L5-20P (US)	---	A
5810	LINE CORD 1.8M, 15A/208V, C19 TO NEMA 6-15P (US)	---	A
5811	LINE CORD 2.5M, 16A/208V, C19 TO NEMA L6-20P (US)	---	A
5812	LINE CORD 2.5M, 15A/200V, C19 TO JIS C-8303 (JAPAN)	---	A
5813	LINE CORD 2.5M, 15A/100V, C19 TO JIS C-8303 (JAPAN)	---	A



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Feature Code	Description	7989-BCH	7779-BCS
<b>Keyboards</b>			
5951	USB KEYBD, BLACK, US ENGLISH	A	A
5952	USB KEYBD, BLACK, FRENCH	A	A
5953	USB KEYBD, BLACK, ITALIAN,	A	A
5954	USB KEYBD, BLACK, GERMAN/AUSTRIAN	A	A
5955	USB KEYBD, BLACK, UK ENGLISH	A	A
5956	USB KEYBD, BLACK, SPANISH	A	A
5957	USB KEYBD, BLACK, JAPANESE	A	A
5958	USB KEYBD, BLACK, BRAZILIAN PORTUGUESE,	A	A
5959	USB KEYBD, BLACK, HUNGARIAN	A	A
5960	USB KEYBD, BLACK, KOREAN	A	A
5961	USB KEYBD, BLACK, CHINESE	A	A
5962	USB KEYBD, BLACK, FRENCH CANADIAN	A	A
5963	USB KEYBD, BLACK, CANADIAN FRENCH	A	A
5964	USB KEYBD, BLACK, BELGIUM/UK	A	A
5965	USB KEYBD, BLACK, SWEDISH/FINNISH	A	A
5966	USB KEYBD, BLACK, DANISH	A	A
5967	USB KEYBD, BLACK, BULGARIAN	A	A
5968	USB KEYBD, BLACK, SWISS,FRENCH/GERMAN	A	A
5969	USB KEYBD, BLACK, NORWEGIAN	A	A
5970	USB KEYBD, BLACK, DUTCH	A	A
5971	USB KEYBD, BLACK, PORTUGUESE	A	A
5972	USB KEYBD, BLACK, GREEK	A	A
5973	USB KEYBD, BLACK, HEBREW	A	A
5974	USB KEYBD, BLACK, POLISH	A	A
5975	USB KEYBD, BLACK, SLOVAKIAN, #245	A	A
5976	USB KEYBD, BLACK, CZECH	A	A
5977	USB KEYBD, BLACK, TURKISH	A	A
5978	USB KEYBD, BLACK, LA SPANISH	A	A
5979	USB KEYBD, BLACK, ARABIC	A	A
5980	USB KEYBD, BLACK, THAILAND	A	A
5981	USB KEYBD, BLACK, RUSSIAN	A	A
5982	USB KEYBD, BLACK, SLOVENIAN	A	A
5983	USB KEYBD, BLACK, US EURO	A	A

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