

IBM System Cluster 1350



Components

IBM System Cluster 1350



Components

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Chapter 1. Introduction

This document is for use by service representatives. It lists the main components for each release of the IBM System Cluster 1350.

For a component list for releases prior to December, 2007, see <http://publib.boulder.ibm.com/cluster/index.htm>.

Chapter 2. December 2007 release components

This chapter provides a list of supported IBM System Cluster 1350 components for November 2007.

Microprocessor

The core microprocessor is the IBM BladeCenter JS22 4-core 4.0 GHz microprocessor. The machine type model is 7998.

Nodes

This section provides a list of the IBM System Cluster 1350 node components.

Cluster nodes

This section provides a list of the IBM System Cluster 1350 cluster node components and their machine type.

Table 1. Cluster nodes

Product	Machine type
IBM System x3550 server	7979
IBM System x3650 server	7978
IBM System x3655 server	7985
IBM System x3455 server	7984
IBM System x3755 server	8877
IBM BladeCenter HS21	8853
IBM BladeCenter HS21 XM	7995
IBM BladeCenter LS21	7971
IBM BladeCenter LS41	7972
IBM BladeCenter JS21	7988
IBM BladeCenter JS22	7998
IBM BladeCenter QS20	0200
IBM BladeCenter QS21	0792

Management nodes

This section provides a list of the IBM System Cluster 1350 management nodes and their machine type.

Table 2. Management nodes

Product	Machine type
IBM System x3650 server	7979
IBM System x3655 server	7985
IBM System x3755 server	8877

BladeCenter chassis

This section provides a list of the IBM System Cluster 1350 BladeCenter chassis and their machine type.

Table 3. BladeCenter chassis

Product	Machine type
IBM BladeCenter	8677
IBM BladeCenter H	8852

Server adapters

This section provides a list of server adapters and their part numbers.

Storage adapters for servers

This section provides a list of the IBM System Cluster 1350 storage adapters and their part numbers.

Table 4. Storage adapters

Product	Part number
IBM ServeRAID-8k SAS Controller	25R8064
IBM ServeRAID-8k-L SAS Controller	N/A
IBM MegaRAID 8480 PCI-E Adapter	39R8850
IBM DS3200 SAS, single controller	172621X
IBM DS3200 SAS, dual controller	172622X
IBM DS3400 Fibre Channel, SAS, single controller	172641X
IBM DS3400 Fibre Channel, SAS, dual controller	172642X
IBM DS4200 Express	18147VH
IBM DS4700 Express Model 70	18147OH
IBM DS4700 Express Model 72	181472H
IBM DS4800 Model 82 Midrange Disk System	181582H
IBM DS4800 Model 84 Midrange Disk System	181584H
IBM DS4800 Model 88 Midrange Disk System	181588H

Communication adapters for servers

This section provides a list of the IBM System Cluster 1350 communication adapters and their part numbers.

Table 5. Communication adapters for servers

Product	Part number
NetXtreme 1000 SX+ Ethernet PCI-X adapter	39Y6088
NetXtreme 1000 T+ Dual Port Ethernet PCI-X adapter	39Y6093

Table 5. Communication adapters for servers (continued)

Product	Part number
PRO/1000 GT Quad Port PCI-X 1 Gigabit Ethernet	73P5201
NetXtreme II 1000 Express Ethernet PCI-E adapter	39Y6066

High-speed communication adapters for servers

This section provides a list of the IBM System Cluster 1350 high-speed communication adapters and their part numbers.

Table 6. High-speed communication adapters for servers

Product	Part number
Myricom Myri-10G 2 MB PCI Express adapter with 10GBASE-CX4 port bundle	40K9112
Myricom Myri-10G 2 MB PCI Express adapter with XAUI-MTP port bundle	40K9113
Myricom Myri-10G PCI Express adapter with 10GBASE-SR port bundle	40K9114
Voltaire Dual-port 4X SDR InfiniBand PCI-E host control adapter	40K8902
Voltaire Dual-Port 4X DDR InfiniBand PCI-E host control adapter	42D3702
Cisco Dual-port SDR 4X InfiniBand PCI-E host control adapter	41Y4577
Cisco Single-port 4X SDR InfiniBand PCI-E host control adapter (memory free)	44E9030
Cisco Single-port 4X DDR InfiniBand PCI-E host control adapter (memory free)	44E9034

High-speed communication adapters for BladeCenter

This section provides a list of the IBM System Cluster 1350 high-speed communication adapters for BladeCenter and their part numbers.

Table 7. High-speed communication adapters for BladeCenter

Product	Part number
4X DDR InfiniBand CFFh Expansion Card for IBM BladeCenter	43W4421
Cisco 4X DDR InfiniBand CFFh Expansion Card for IBM BladeCenter	43W4423
Cisco 4X SDR InfiniBand HSDC for IBM BladeCenter	32R1760
NetXen High-Speed 10Gb Ethernet CFFh Expansion Card for IBM BladeCenter	39Y9271
QS20 Infiniband Card Kit	42D1479
Voltaire 4X SDR IB HSDC for IBM BladeCenter	40K8917
Voltaire 4X DDR IB HSDC Daughter Card for IBM BladeCenter	42D1462
Voltaire 4X DDR InfiniBand CFFh Expansion Card for IBM BladeCenter	43W4420

Clearspeed PCI-X adapter for servers

The Clearspeed PCI-X Accelerator board supports servers. The part number for the adapter is 25R8589.

BladeCenter I/O modules

This section provides a list of supported BladeCenter input/output (I/O) modules and their part numbers.

Storage modules

This section provides a list of storage I/O modules and their part numbers.

Table 8. Storage modules

Product	Part number
IBM BladeCenter SAS Connectivity Module	39Y9195
Brocade 20-port 4 Gigabit SAN Switch Module for IBM BladeCenter	32R1812
QLogic 10-port 4 Gigabit SAN Switch Module for IBM BladeCenter	43W6724
QLogic 20-port 4 Gigabit Fibre Channel Switch Module for IBM BladeCenter	26R0881
QLogic 20-port 4 Gigabit SAN Switch Module for IBM BladeCenter	43W6725

Network modules

This section provides a list of network I/O modules and their part numbers.

Table 9. Network modules

Product	Part number
Optical Pass-through Module (OPM) for IBM BladeCenter	39Y9316
Copper Pass-Through Module (CPM) for IBM BladeCenter	39Y9320
Voltaire High Performance InfiniBand Pass-Through Module for IBM BladeCenter	40K8922
QLogic 4 Gigabit Intelligent Pass-thru Module for IBM BladeCenter	43W6723
4X InfiniBand Pass-thru HSSM for IBM BladeCenter	43W4419
Cisco 4X InfiniBand HSSM for IBM BladeCenter	32R1756
Cisco Gigabit Ethernet Switch Module for IBM BladeCenter	32R1892
Nortel L2/L3 Copper Gigabit Ethernet Switch Module for IBM BladeCenter	32R1860
Server Connectivity Module for IBM BladeCenter	39Y9324
Nortel 1 Gigabit through 10 Gigabit Uplink Ethernet switch modules for IBM BladeCenter	32R1783
Nortel 10 Gigabit Ethernet HSSM for IBM BladeCenter	39Y9267

OEM switches and switch options

This section provides a list of OEM switches, switch enclosures, line cards, a patch panel, terminal servers, and their part numbers.

OEM switches, switch enclosures, line cards

This section provides a list of OEM switches, switch enclosures, line cards, and their part numbers.

Table 10. OEM switches, switch enclosures, line cards

Product	Part number
Cisco HPC-E 2960G 24-port Ethernet Switch Bundle	4670030
Cisco HPC-E 4948-10 Gigabit Ethernet 48-port Ethernet Switch Bundle	4670031
Cisco HPC-E 3750G-48TS Ethernet Switch Bundle	4670017
Cisco HPC-E 4506 Enclosure Bundle	4670016
Cisco HPC-E 6503-E Switch Enclosure Bundle	4670021
Cisco HPC-E 6509-E Switch Enclosure Bundle	4670018
Cisco SFS 7000P 24-Port InfiniBand Switch Bundle	4670024
Cisco SFS 7000D 24-port DDR InfiniBand Switch Bundle	4670025
Cisco SFS 7012D 144-port DDR InfiniBand Switch Bundle	4670026
Cisco SFS 7024D 288-port DDR InfiniBand Switch Bundle	4670027
Cisco HPC-E 4548 48-port Gigabit Ethernet Line Card	40K9117
Cisco HPC-E 6548 Fabric Enabled 48-port Gigabit Ethernet Line Card	40K8908
Cisco HPC-E 6748 (CFC) Fabric Enabled 48-port Gigabit Ethernet Line Card	40K8914
Cisco HPC-E 6704 (CFC) 4-port 10 Gb Ethernet Line Card	4670020
Cisco 7012D/7024D DDR Switch Fabric Module - with management	4670029
Cisco SFS 7012P/7024D 12-port 4X DDR InfiniBand Line Card	4670028
Emulex 4 Gb Fibre Channel daughter card (CFFv) for IBM BladeCenter (dual port)	39Y9186
Emulex 4 Gb Fibre Channel Expansion Card (CFFv) for IBM BladeCenter	43W6859
Force10 S50 48-port Gigabit Ethernet Switch	4667015
Force10 S50N 48-port Gigabit Ethernet Switch Bundle	4667030
Force10 E300 Switch Enclosure Bundle	4667012
Force10 E600i Switch Enclosure Bundle	4667029
Force10 E1200 Switch Enclosure Bundle	4667010
Force10 5-slot AC Rectifier Chassis Bundle	4667013
Force10 24 Gigabit Stacking Kit	44R9948

Table 10. OEM switches, switch enclosures, line cards (continued)

Product	Part number
Force10 2-port 10 Gigabit XFP-based Uplink Kit	44R9938
Force10 S50 10 Gigabit Uplink Kit	40K8882
Force10 8-port Blocking 10 Gigabit Ethernet Line Card	4667028
Force10 E300 Route Processor Module	4667016
Force10 E300 48-port Blocking Gigabit Ethernet Line Card	4667024
Force10 16-port Blocking 10 Gigabit Ethernet Line Card	4667027
Force10 90-port Gb mini-RJ21 Line Card	4667014
Force10 48-port Non-blocking Gigabit Ethernet Line Card	4667020
Force10 E600/E1200 Route Processor Module	4667022
Force10 E600/E1200 48-port Blocking Gigabit Ethernet Line Card	4667023
Force10 4-port Non-blocking 10 Gigabit Ethernet Line Card	4667021
Myricom M3 E32 Switch Enclosure	0445015
Myricom M3 E64 Switch Enclosure	0445016
Myricom M3 E128 Switch Enclosure	0445021
Myricom M3 Clos256 Switch Enclosure Bundle	0445011
Myricom M3 Clos256 Spine Enclosure Bundle	0445012
Myricom Myri-10G Clos128 Enclosure Bundle	0445019
Myricom Myri-10G 8-port 10GBASE-CX4 Line Card	40K9115
Myricom Myri-10G 8-port XAUI Fiber Ribbon Line Card	40K9116
Myricom M3 16 Quad-port Spine Line Card	0445013
Myricom M3 Dual SW32 Line Card	40K8884
Myricom M3 SW32 Line Card	40K8883
Myricom M3 Clos256 Air Dam	40K8885
Myricom M3 16 Quad-port Thru Line Card	0445014
SMC 8024L2 24-port Gigabit Ethernet Switch Bundle	4668016
SMC 8848M Ethernet Switch Bundle	4668015
SMC 8708L2 8-port 10 Gigabit Ethernet Switch	4668012
SMC Single-port 10 Gigabit Uplink Module	40K9165
Voltaire 9024S 24-port Externally Managed SDR InfiniBand Switch Bundle	4669021
Voltaire 9024S-M 24-port SDR Switch Bundle	4669018
Voltaire 9024D-M 24-port DDR Switch Bundle	4669017
Voltaire 9096 Switch Enclosure Bundle	4669015
Voltaire 9288 Switch Enclosure Bundle	4669012
Voltaire 9096 sFB-4 Fabric Board	40K9052
Voltaire 9096/9288 - sLB-24, 24-port 4X SDR InfiniBand Line Card	4669016

Table 10. OEM switches, switch enclosures, line cards (continued)

Product	Part number
Voltaire 9288 sLB-12 Switch Fabric Board	4669013

Patch panel

The IBM Systems Cluster 1350 is supported by the Tyco 48-port 1 Gb Ethernet angled patch panel. The patch panel part number is 0564010.

Terminal servers

This section provides a list of terminal servers and their part numbers.

Table 11. Terminal servers

Product	Part number
Cyclades ACS48 Terminal Server	0448011
Cyclades Cyclades ACS32 Terminal Server	0448012

External storage

The IBM System Cluster 1350 supports the following units:

Table 12.

Product	Part number
IBM System EXP3000 storage expansion unit	172701X
IBM System DS4000 EXP420 storage expansion unit	18128VH
IBM System DS4000 EXP810 storage expansion unit	181281H

- IBM System Storage EXP3000 expansion unit. The part number for the disk enclosure is 172701X.

Cable connectivity

This section provides a description of the various supported cables and transceivers and their part numbers.

Cables

This section provides a description of the various supported cables and their part numbers.

Table 13. Cables

Cables	Part number
CAT5e, 0.6 m, blue	40K5679
CAT5e, 0.6 m, green	40K5563
CAT5e, 0.6 m, yellow	40K8933
CAT5e, 1.5 m, blue	40K8785
CAT5e, 1.5 m, green	40K5643

Table 13. Cables (continued)

Cables	Part number
CAT5e, 1.5 m, yellow	40K8951
CAT5e, 10 m, blue	40K8927
CAT5e, 10 m, green	40K5794
CAT5e, 10 m, yellow	40K8801
CAT5e, 25 m, blue	40K8930
CAT5e, 25 m, green	40K8869
CAT5e, 25 m, yellow	40K8807
CAT5e, 3 m, blue	40K5581
CAT5e, 3 m, green	40K5793
CAT5e, 3 m, yellow	40K8957
LC-LC, 1 m, Fibre Channel (Networking)	39M5696
LC-LC, 25 m, Fibre Channel (Networking)	39M5698
LC-LC, 5 m, Fibre Channel (Networking)	39M5697
LC (female) - SC (male) Fiber, 0.2 m	44R8701
4X SDR InfiniBand, 3 m	26R0813
4X SDR InfiniBand, 8 m	26R0847
4X SDR InfiniBand, 10 m	43W4377
12X-to-3, 4X SDR InfiniBand, 3 m	26R0816
12X-to-3, 4X SDR Infiniband, 8 m	26R0849
12X-to-3, 4X SDR InfiniBand, 11 m	43W4379
Voltaire 4X DDR InfiniBand, 3 m	42D1463
Voltaire 4X DDR InfiniBand, 8 m	42D1464
Cisco 4X DDR InfiniBand SuperFlex, 3m	44E9062
Cisco 4X DDR InfiniBand, 8 m	44E9070
Myricom MTP Quad Fiber, 1 m	40K5546
Myricom MTP Quad Fiber, 3 m	40K5547
Myricom MTP Quad Fiber, 10 m	40K5548
10GBASE-CX4 Copper, 1 m	40K9181
10GBASE-CX4 Copper, 3 m	40K9182
10GBASE-CX4 Copper, 10 m	40K9183
Copper Pass-Through Module Cable for IBM BladeCenter	39Y9170
SC Optical Pass-through Module Cable for IBM BladeCenter, 1.5 m	39Y9171
LC Optical Pass-through Module Cable for IBM BladeCenter, 1.5 m	39Y9172
Tyco Straight MRJ21-to-Angled MRJ21, 3 m	44E9046
Tyco Straight MRJ21-to-Angled MRJ21, 10 m	44E9051
Tyco Straight MRJ21-to-Angled MRJ21, 30 m	44E9066
miniSAS X4 - miniSAS X4, 1 m	39R6529
miniSAS X4 - miniSAS X4, 3 m	39R6531

Table 13. Cables (continued)

Cables	Part number
MegaRAID SAS, 3 m	39R6471

Transceivers

This section provides a description of the various supported transceiver options and their part numbers.

Table 14. Transceivers

Product	Part number
Force10 10 Gigabit XFP SR Optics Module	40K8890
Cisco 10GBASE-SR X2 Module	44E9078
Cisco 10GBASE-SR XENPAK Module	40K5598
Cisco 1000BASE-SX SFP Module	44E9088
Cisco 1000BASE-T GBIC Module	40K5607
Cisco 1000BASE-SX GBIC Module	40K5603
Cyclades RJ45-to-DB9 Serial Cable Adapter	40K5798
Cyclades RJ45-to-DB9 Serial Cable Adapter for BladeCenter	42D1363

Rack cabinet options

This section provides a description of the various supported rack cabinet options and their part numbers.

KVM switches

This section provides a description of the various supported keyboard, video, mouse (KVM) switches and their part numbers.

Table 15. KVM switches

Product	Part number
IBM Global 2 x 16 Console Manager	17352GX
IBM Global 4 x 16 Console Manager	17354GX
IBM Local 2 x 8 Console Manager	17351GX

Front-end PDUs

This section provides a description of the various supported front-end power distribution units (PDU) and their part numbers.

Table 16. Front-end PDUs

Product	Part number
IBM DPI C19 Enterprise PDU (WW)	39Y8948
DPI Three-phase 60A/208V C19 Enterprise PDU (US)	39Y8923
DPI 30amp/250V Front-end PDU with NEMA L6-30P (208v) Line Cord	39Y8939
DPI Single-phase 30A/208V C19 Enterprise PDU (US)	39Y8948

Table 16. Front-end PDUs (continued)

Product	Part number
DPI Single-phase 60A/208V C19 Enterprise PDU (US)	39Y8948
DPI 63amp/250V Front-end PDU with IEC 309 2-pin and ground line cord (International)	39Y8935
DPI 60amp/250V Front-end PDU with IEC 309 2-pin and ground line cord	39Y8940
DPI 32amp/250V Front-end PDU with IEC 309 2-pin and ground line cord (International)	39Y8934

Rack cabinet PDUs

This section provides a description of the various supported rack cabinet PDUs and their part numbers.

Table 17. Rack cabinet PDUs

Product	Part number
DPI C13 Enterprise Module (WW)	39Y8941
DPI Single-phase 30A/208V C13 Enterprise PDU (US)	39Y8948
DPI Single-phase 60A/208V C13 Enterprise PDU (US)	39Y8948
DPI Universal Rack PDU w/Nema L5-20P & L6-20P (U.S. line cord)	39Y8951
DPI Universal Rack PDU with NBR 6147 (Brazil line cord)	39Y8960
DPI Universal Rack PDU with GB 2099.1 (China line cord)	39Y8959
DPI Universal Rack PDU with SI32 (Israel line cord) DPI	39Y8954
Universal Rack PDU with 3112 (Australia/New Zealand line cord) DPI	39Y8958
Universal Rack PDU with IRAM 2073 (Argentina line cord) DPI	39Y8962
Universal Rack PDU with CEI 23-16 (Italy line cord) DPI	39Y8955
Universal Rack PDU with SABS 164 (South Africa line cord) DPI	39Y8956
Universal Rack PDU with BS 1363/A (UK line cord) DPI	39Y8957
Universal Rack PDU with IS 6538 (India line cord) DPI	39Y8961
Universal Rack PDU w/Nema L5-20P & L6-20P (U.S. line cord) DPI	39Y8952
Universal Rack PDU with IEC 309 2-pin and ground (Denmark line cord)	39Y8953

Chapter 3. November 2007 release components

This chapter provides a list of supported IBM System Cluster 1350 components for November 2007.

Nodes

This section provides a list of the IBM System Cluster 1350 node components.

Cluster nodes

This section provides a list of the IBM System Cluster 1350 cluster node components and their machine type.

Table 18. Cluster nodes

Product	Machine type
IBM System x3550 server	7979
IBM System x3650 server	7978
IBM System x3655 server	7985
IBM System x3455 server	7984
IBM System x3755 server	8877
IBM BladeCenter HS21	8853
IBM BladeCenter HS21 XM	7995
IBM BladeCenter LS21	7971
IBM BladeCenter LS41	7972
IBM BladeCenter JS21	7988
IBM BladeCenter QS20	0200
IBM BladeCenter QS21	0792

Management nodes

This section provides a list of the IBM System Cluster 1350 management nodes and their machine type.

Table 19. Management nodes

Product	Machine type
IBM System x3650 server	7979
IBM System x3655 server	7985
IBM System x3755 server	8877

BladeCenter chassis

This section provides a list of the IBM System Cluster 1350 BladeCenter chassis and their machine type.

Table 20. BladeCenter chassis

Product	Machine type
IBM BladeCenter	8677
IBM BladeCenter H	8852

Server adapters

This section provides a list of server adapters and their part numbers.

Storage adapters for servers

This section provides a list of the IBM System Cluster 1350 storage adapters and their part numbers.

Table 21. Storage adapters

Product	Part number
IBM ServeRAID-8k SAS Controller	25R8064
IBM ServeRAID-8k-1 SAS Controller	N/A
IBM MegaRAID 8480 PCI-E Adapter	39R8850

Communication adapters for servers

This section provides a list of the IBM System Cluster 1350 communication adapters and their part numbers.

Table 22. Communication adapters for servers

Product	Part number
NetXtreme 1000 SX+ Ethernet PCI-X adapter	39Y6088
NetXtreme 1000 T+ Dual Port Ethernet PCI-X adapter	39Y6093
PRO/1000 GT Quad Port PCI-X 1 Gigabit Ethernet	73P5201
NetXtreme II 1000 Express Ethernet PCI-E adapter	39Y6066

High-speed communication adapters for servers

This section provides a list of the IBM System Cluster 1350 high-speed communication adapters and their part numbers.

Table 23. High-speed communication adapters for servers

Product	Part number
Myricom Myri-10G 2 MB PCI Express adapter with 10GBASE-CX4 port bundle	40K9112
Myricom Myri-10G 2 MB PCI Express adapter with XAUI-MTP port bundle	40K9113

Table 23. High-speed communication adapters for servers (continued)

Product	Part number
Myricom Myri-10G PCI Express adapter with 10GBASE-SR port bundle	40K9114
Voltaire Dual-port 4X SDR InfiniBand PCI-E host control adapter	40K8902
Voltaire Dual-Port 4X DDR InfiniBand PCI-E host control adapter	42D3702
Cisco Dual-port SDR 4X InfiniBand PCI-E host control adapter	41Y4577
Cisco Single-port 4X SDR InfiniBand PCI-E host control adapter (memory free)	44E9030
Cisco Single-port 4X DDR InfiniBand PCI-E host control adapter (memory free)	44E9034

High-speed communication adapters for BladeCenter

This section provides a list of the IBM System Cluster 1350 high-speed communication adapters for BladeCenter and their part numbers.

Table 24. High-speed communication adapters for BladeCenter

Product	Part number
NetXen High-Speed 10Gb Ethernet CFFh Expansion Card for BladeCenter	39Y9271
Voltaire 4X SDR IB HSDC for BladeCenter	40K8917
Voltaire 4X DDR IB HSDC Daughter Card for BladeCenter	42D1462
Cisco 4X SDR InfiniBand HSDC for BladeCenter	32R1760
4X DDR InfiniBand CFFh Expansion Card for BladeCenter	43W4423
Cisco 4X DDR InfiniBand CFFh Expansion Card for BladeCenter	43W4421
Voltaire 4X DDR InfiniBand CFFh Expansion Card for BladeCenter	43W4420
QS20 Infiniband Card Kit	42D1479

Clearspeed PCI-X adapter for servers

The Clearspeed PCI-X Accelerator board supports servers. The part number for the adapter is 25R8589.

BladeCenter I/O modules

This section provides a list of supported BladeCenter input/output (I/O) modules and their part numbers.

Storage modules

This section provides a list of storage I/O modules and their part numbers.

Table 25. Storage modules

Product	Part number
IBM BladeCenter SAS Connectivity Module	39Y9195
Brocade 20-port 4 Gigabit SAN Switch Module for IBM BladeCenter	32R1812
Qlogic 10-port 4 Gigabit SAN Switch Module for IBM BladeCenter	43W6724
QLogic 20-port 4 Gigabit Fibre Channel Switch Module for IBM BladeCenter	26R0881
Qlogic 20-port 4 Gigabit SAN Switch Module for IBM BladeCenter	43W6725

Network modules

This section provides a list of network I/O modules and their part numbers.

Table 26. Network modules

Product	Part number
Optical Pass-through Module (OPM) for IBM BladeCenter	39Y9316
Copper Pass-Through Module (CPM) for IBM BladeCenter	39Y9320
Voltaire High Performance InfiniBand Pass-Through Module for IBM BladeCenter	40K8922
QLogic 4 Gigabit Intelligent Pass-thru Module for IBM BladeCenter	43W6723
4X InfiniBand Pass-thru HSSM for IBM BladeCenter	43W4419
Cisco 4X InfiniBand HSSM for IBM BladeCenter	32R1756
Cisco Gigabit Ethernet Switch Module for IBM BladeCenter	32R1892
Nortel L2/L3 Copper Gigabit Ethernet Switch Module for IBM BladeCenter	32R1860
Server Connectivity Module for IBM BladeCenter	39Y9324
Nortel 1 Gigabit through 10 Gigabit Uplink Ethernet switch modules for IBM BladeCenter	32R1783
Nortel 10 Gigabit Ethernet HSSM for IBM BladeCenter	39Y9267

OEM switches and switch options

This section provides a list of OEM switches, switch enclosures, line cards, a patch panel, terminal servers, and their part numbers.

OEM switches, switch enclosures, line cards

This section provides a list of OEM switches, switch enclosures, line cards, and their part numbers.

Table 27. OEM switches, switch enclosures, line cards

Product	Part number
Cisco HPC-E 2960G 24-port Ethernet Switch Bundle	4670030
Cisco HPC-E 4948-10 Gigabit Ethernet 48-port Ethernet Switch Bundle	4670031
Cisco HPC-E 3750G-48TS Ethernet Switch Bundle	4670017
Cisco HPC-E 4506 Enclosure Bundle	4670016
Cisco HPC-E 6503-E Switch Enclosure Bundle	4670021
Cisco HPC-E 6509-E Switch Enclosure Bundle	4670018
Cisco SFS 7000P 24-Port InfiniBand Switch Bundle	4670024
Cisco SFS 7000D 24-port DDR InfiniBand Switch Bundle	4670025
Cisco SFS 7012D 144-port DDR InfiniBand Switch Bundle	4670026
Cisco SFS 7024D 288-port DDR InfiniBand Switch Bundle	4670027
Cisco HPC-E 4548 48-port Gigabit Ethernet Line Card	40K9117
Cisco HPC-E 6548 Fabric Enabled 48-port Gigabit Ethernet Line Card	40K8908
Cisco HPC-E 6748 (CFC) Fabric Enabled 48-port Gigabit Ethernet Line Card	40K8914
Cisco HPC-E 6704 (CFC) 4-port 10 Gb Ethernet Line Card	4670020
Cisco 7012D/7024D DDR Switch Fabric Module - with management	4670029
Cisco SFS 7012P/7024D 12-port 4X DDR InfiniBand Line Card	4670028
Force10 S50 48-port Gigabit Ethernet Switch	4667015
Force10 S50N 48-port Gigabit Ethernet Switch Bundle	4667030
Force10 E300 Switch Enclosure Bundle	4667012
Force10 E600i Switch Enclosure Bundle	4667029
Force10 E1200 Switch Enclosure Bundle	4667010
Force10 5-slot AC Rectifier Chassis Bundle	4667013
Force10 24 Gigabit Stacking Kit	44R9948
Force10 2-port 10 Gigabit XFP-based Uplink Kit	44R9938
Force10 S50 10 Gigabit Uplink Kit	40K8882
Force10 8-port Blocking 10 Gigabit Ethernet Line Card	4667028
Force10 E300 Route Processor Module	4667016
Force10 E300 48-port Blocking Gigabit Ethernet Line Card	4667024
Force10 16-port Blocking 10 Gigabit Ethernet Line Card	4667027
Force10 90-port Gb mini-RJ21 Line Card	4667014

Table 27. OEM switches, switch enclosures, line cards (continued)

Product	Part number
Force10 48-port Non-blocking Gigabit Ethernet Line Card	4667020
Force10 E600/E1200 Route Processor Module	4667022
Force10 E600/E1200 48-port Blocking Gigabit Ethernet Line Card	4667023
Force10 4-port Non-blocking 10 Gigabit Ethernet Line Card	4667021
Myricom M3 E32 Switch Enclosure	0445015
Myricom M3 E64 Switch Enclosure	0445016
Myricom M3 E128 Switch Enclosure	0445021
Myricom M3 Clos256 Switch Enclosure Bundle	0445011
Myricom M3 Clos256 Spine Enclosure Bundle	0445012
Myricom Myri-10G Clos128 Enclosure Bundle	0445019
Myricom Myri-10G 8-port 10GBASE-CX4 Line Card	40K9115
Myricom Myri-10G 8-port XAUI Fiber Ribbon Line Card	40K9116
Myricom M3 16 Quad-port Spine Line Card	0445013
Myricom M3 Dual SW32 Line Card	40K8884
Myricom M3 SW32 Line Card	40K8883
Myricom M3 Clos256 Air Dam	40K8885
Myricom M3 16 Quad-port Thru Line Card	0445014
SMC 8024L2 24-port Gigabit Ethernet Switch Bundle	4668016
SMC 8848M Ethernet Switch Bundle	4668015
SMC 8708L2 8-port 10 Gigabit Ethernet Switch	4668012
SMC Single-port 10 Gigabit Uplink Module	40K9165
Voltaire 9024S 24-port Externally Managed SDR InfiniBand Switch Bundle	4669021
Voltaire 9024S-M 24-port SDR Switch Bundle	4669018
Voltaire 9024D-M 24-port DDR Switch Bundle	4669017
Voltaire 9096 Switch Enclosure Bundle	4669015
Voltaire 9288 Switch Enclosure Bundle	4669012
Voltaire 9096 sFB-4 Fabric Board	40K9052
Voltaire 9096/9288 - sLB-24, 24-port 4X SDR InfiniBand Line Card	4669016
Voltaire 9288 sLB-12 Switch Fabric Board	4669013

Patch panel

The IBM Systems Cluster 1350 is supported by the Tyco 48-port 1 Gb Ethernet angled patch panel. The patch panel part number is 0564010.

Terminal servers

This section provides a list of terminal servers and their part numbers.

Table 28. Terminal servers

Product	Part number
Cyclades ACS48 Terminal Server	0448011
Cyclades Cyclades ACS32 Terminal Server	0448012

External storage

The IBM System Cluster 1350 supports the IBM System Storage EXP3000 expansion unit. The part number for the disk enclosure is 172701X.

Cable connectivity

This section provides a description of the various supported cables and transceivers and their part numbers.

Cables

This section provides a description of the various supported cables and their part numbers.

Table 29. Cables

Cables	Part number
CAT5e, 0.6 m, blue	40K5679
CAT5e, 0.6 m, green	40K5563
CAT5e, 0.6 m, yellow	40K8933
CAT5e, 1.5 m, blue	40K8785
CAT5e, 1.5 m, green	40K5643
CAT5e, 1.5 m, yellow	40K8951
CAT5e, 10 m, blue	40K8927
CAT5e, 10 m, green	40K5794
CAT5e, 10 m, yellow	40K8801
CAT5e, 25 m, blue	40K8930
CAT5e, 25 m, green	40K8869
CAT5e, 25 m, yellow	40K8807
CAT5e, 3 m, blue	40K5581
CAT5e, 3 m, green	40K5793
CAT5e, 3 m, yellow	40K8957
LC-LC, 1 m, Fibre Channel (Networking)	39M5696
LC-LC, 25 m, Fibre Channel (Networking)	39M5698
LC-LC, 5 m, Fibre Channel (Networking)	39M5697
LC (female) - SC (male) Fiber, 0.2 m	44R8701
4X SDR InfiniBand, 3 m	26R0813
4X SDR InfiniBand, 8 m	26R0847
4X SDR InfiniBand, 10 m	43W4377

Table 29. Cables (continued)

Cables	Part number
12X-to-3, 4X SDR InfiniBand, 3 m	26R0816
12X-to-3, 4X SDR Infiniband, 8 m	26R0849
12X-to-3, 4X SDR InfiniBand, 11 m	43W4379
Voltaire 4X DDR InfiniBand, 3 m	42D1463
Voltaire 4X DDR InfiniBand, 8 m	42D1464
Cisco 4X DDR InfiniBand SuperFlex, 3m	44E9062
Cisco 4X DDR InfiniBand, 8 m	44E9070
Myricom MTP Quad Fiber, 1 m	40K5546
Myricom MTP Quad Fiber, 3 m	40K5547
Myricom MTP Quad Fiber, 10 m	40K5548
10GBASE-CX4 Copper, 1 m	40K9181
10GBASE-CX4 Copper, 3 m	40K9182
10GBASE-CX4 Copper, 10 m	40K9183
Copper Pass-Through Module Cable for IBM BladeCenter	39Y9170
SC Optical Pass-through Module Cable for IBM BladeCenter, 1.5 m	39Y9171
LC Optical Pass-through Module Cable for IBM BladeCenter, 1.5 m	39Y9172
Tyco Straight MRJ21-to-Angled MRJ21, 3 m	44E9046
Tyco Straight MRJ21-to-Angled MRJ21, 10 m	44E9051
Tyco Straight MRJ21-to-Angled MRJ21, 30 m	44E9066
miniSAS X4 - miniSAS X4, 1 m	39R6529
miniSAS X4 - miniSAS X4, 3 m	39R6531
MegaRAID SAS, 3 m	39R6471

Transceivers

This section provides a description of the various supported transceiver options and their part numbers.

Table 30. Transceivers

Product	Part number
Force10 10 Gigabit XFP SR Optics Module	40K8890
Cisco 10GBASE-SR X2 Module	44E9078
Cisco 10GBASE-SR XENPAK Module	40K5598
Cisco 1000BASE-SX SFP Module	44E9088
Cisco 1000BASE-T GBIC Module	40K5607
Cisco 1000BASE-SX GBIC Module	40K5603
Cyclades RJ45-to-DB9 Serial Cable Adapter	40K5798
Cyclades RJ45-to-DB9 Serial Cable Adapter for BladeCenter	42D1363

Rack cabinet options

This section provides a description of the various supported rack cabinet options and their part numbers.

KVM switches

This section provides a description of the various supported keyboard, video, mouse (KVM) switches and their part numbers.

Table 31. KVM switches

Product	Part number
IBM Global 2 x 16 Console Manager	17352GX
IBM Global 4 x 16 Console Manager	17354GX
IBM Local 2 x 8 Console Manager	17351GX

Front-end PDUs

This section provides a description of the various supported front-end power distribution units (PDU) and their part numbers.

Table 32. Front-end PDUs

Product	Part number
IBM DPI C19 Enterprise PDU (WW)	39Y8948
DPI Three-phase 60A/208V C19 Enterprise PDU (US)	39Y8923
DPI 30amp/250V Front-end PDU with NEMA L6-30P (208v) Line Cord	39Y8939
DPI Single-phase 30A/208V C19 Enterprise PDU (US)	39Y8948
DPI Single-phase 60A/208V C19 Enterprise PDU (US)	39Y8948
DPI 63amp/250V Front-end PDU with IEC 309 2-pin and ground line cord (International)	39Y8935
DPI 60amp/250V Front-end PDU with IEC 309 2-pin and ground line cord	39Y8940
DPI 32amp/250V Front-end PDU with IEC 309 2-pin and ground line cord (International)	39Y8934

Rack cabinet PDUs

This section provides a description of the various supported rack cabinet PDUs and their part numbers.

Table 33. Rack cabinet PDUs

Product	Part number
DPI C13 Enterprise Module (WW)	39Y8941
DPI Single-phase 30A/208V C13 Enterprise PDU (US)	39Y8948
DPI Single-phase 60A/208V C13 Enterprise PDU (US)	39Y8948
DPI Universal Rack PDU w/Nema L5-20P & L6-20P (U.S. line cord)	39Y8951
DPI Universal Rack PDU with NBR 6147 (Brazil line cord)	39Y8960

Table 33. Rack cabinet PDUs (continued)

Product	Part number
DPI Universal Rack PDU with GB 2099.1 (China line cord)	39Y8959
DPI Universal Rack PDU with SI32 (Israel line cord) DPI	39Y8954
Universal Rack PDU with 3112 (Australia/New Zealand line cord) DPI	39Y8958
Universal Rack PDU with IRAM 2073 (Argentina line cord) DPI	39Y8962
Universal Rack PDU with CEI 23-16 (Italy line cord) DPI	39Y8955
Universal Rack PDU with SABS 164 (South Africa line cord) DPI	39Y8956
Universal Rack PDU with BS 1363/A (UK line cord) DPI	39Y8957
Universal Rack PDU with IS 6538 (India line cord) DPI	39Y8961
Universal Rack PDU w/Nema L5-20P & L6-20P (U.S. line cord) DPI	39Y8952
Universal Rack PDU with IEC 309 2-pin and ground (Denmark line cord)	39Y8953

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