



Intel[®] Modular Server

Spares/Parts List and Configuration Guide

A reference guide to assist customers in ordering the necessary components to configure the Intel Modular Server



Revision 1.0

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Enterprise Platforms and Services Marketing

1. Table of Contents

1.	TABLE OF CONTENTS	2
2.	REVISION HISTORY	3
3.	INTEL MODULAR SERVER CONFIGURATION CHART	4
4.	PRODUCTION ORDER CODES	5
5.	BOXED PROCESSOR ORDER CODES	6
6.	TRAY PROCESSOR ORDER CODES	6-7

Revision History

May '06 - Rev 0.9	-	Alpha, Beta, Silver Release
Dec '07 - Rev 1.0	-	Production Release

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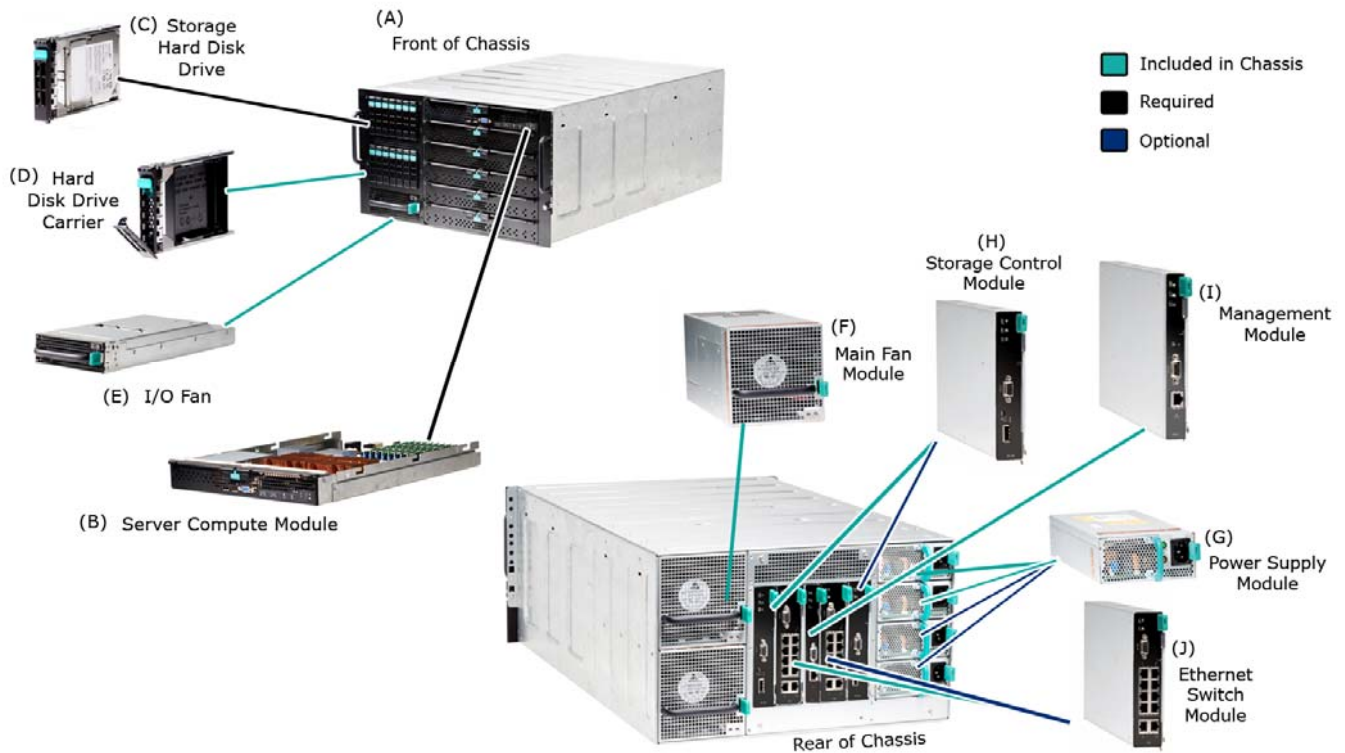
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The Intel® Modular Server Configuration Chart



- | | |
|---|---|
| <p>A) Chassis</p> <ul style="list-style-type: none"> - Up to 6 Server Compute Modules <p>B) Server Compute Module: Required</p> <ul style="list-style-type: none"> - Model MFS5000SI - Supports multi-core Intel® Xeon® Processors - Contains 8 FB-DIMM slots for up to 32GB - Supports an optional Mezzanine expansion card <p>C) Storage Hard Disk Drive: Required</p> <ul style="list-style-type: none"> - Options for up to 14 2.5" SAS drives <p>D) Hard Disk Drive Carrier: All 14 are included in the Chassis.</p> | <p>E) Hot Swappable I/O Fan Module: Included</p> <p>F) Hot Swappable Main Fan Module: Included</p> <p>G) Power Supply Module: 2 Included, 2 Optional</p> <ul style="list-style-type: none"> - N + 1 Redundancy <p>H) Storage Control Module: 1 Included, 1 Optional</p> <ul style="list-style-type: none"> - Up to 2 Storage Control Modules for redundancy <p>I) Management Module: Included</p> <p>J) Ethernet Switch Module: 1 Included, 1 Optional</p> <ul style="list-style-type: none"> - Up to 2 Ethernet Switch Modules - Each module features 10/100/1000GbE Full Duplex Ports |
|---|---|

** Power Supply Notes

- A minimum of one 1000-Watt power supply is required to turn on a compute module
- One power supply will support 1 compute module plus all other modules in the system
- Two power supplies will support 2 to 3 compute modules (in any slot) plus all other modules in the system
- Three power supplies will support 4 to 6 compute modules (in any slot) plus all other modules in the system
- Any additional power supplies above minimum required (based on configuration) provides redundancy

Production Product Order Codes

System and Servers

Product Code	MM	Description
MFSYS25	892235	Modular Server Chassis MFSYS25 with integrated 2.5" shared HDD bay. Contains 5 server blanks, 14 2.5" HDD carriers, main and IO fans, 2 power supplies (2 PSU fans), 1 GbE switch (and 1 blank), 1 storage module with battery backup (and 1 blank), and 1 management module. It will not include any hard drives
MFS5000SIB	892856	(Bulk Pack) MFS5000SI server board in a diskless compute module enclosure. It will not include CPU, heat sinks or memory <i>**Bulk packs are still ordered as individual units and therefore qty's of 3 must be ordered.</i>
MFS5000SI	892778	MFS5000SI server board in a diskless compute module enclosure. It will not include CPU, heat sinks or memory

Optional Accessories

Product Code	MM	Description
AXXSCM3S	891831	SAS Storage Module (including battery backup)
AXXSW1GB	891842	Gigabit Ethernet Switch module
AXXPSU	891843	1000Watt Power Supply Module
AXXGBIOMEZ	891844	(Bulk pack) Dual Gigabit Ethernet I/O Expansion Mezzanine Card <i>**Bulk packs are still ordered as individual units and therefore qty's of 3 must be ordered.</i>
AXXMFRAIL	893313	Tool-less Rail kit

Optional Spares

Product Code	MM	Description
MFSCMBBU	892207	Storage Battery back-up spare
MFHddbAY25	892137	2.5" HDD Bay Module. Kit includes interposer & storage backplane, bezel with 8 screws. No HDD carriers
MFPSUFAN	892195	Blank Power Supply Fan module
MFMAINFAN	892170	Main Fan module
MFIOFAN	892142	IO Fan module
MFIDPLANE	891832	Midplane for MFSYS25 chassis which includes SD Flash
MFCMM	891834	Management Module for MFSYS25
MFBEZEL	893312	Spare HDD bay bezel for MFSYS25 with mounting hardware. This bezel can be customized by OEMs
FXX25HDDCAR	881681	2.5" hard drive carrier blank – spare. As used on other EPSD systems.

Supported Boxed Processors

The Intel Modular Server System uses standard 1U heatsinks found in the active boxed processors

Product Code	MM	SL	Description
BX805565110A	892147	SLAGE	1.60GHz 1066MHz 4MB Dual-Core Intel® Xeon® Processor 5110
BX80563E5345A	890853	SLAC5	2.33GHz 1333MHz 8MB Quad-Core Intel® Xeon® Processor E5345
BX80563E5335A	890826	SLAC7	2.00GHz 1333MHz 8MB Quad-Core Intel® Xeon® Processor E5335
BX80563E5320A	890828	SLAC8	1.86GHz 1066MHz 8MB Quad-Core Intel® Xeon® Processor E5320
BX80563E5310A	890832	SLACB	1.60GHz 1066MHz 8MB Quad-Core Intel® Xeon® Processor E5310
BX80574E5450A	894821	SLANQ	3.00GHz 1333MHz 12MB Quad-Core Intel® Xeon® Processor E5450
BX80574E5440A	894823	SLANS	2.83GHz 1333MHz 12MB Quad-Core Intel® Xeon® Processor E5440
BX80574E5430A	894825	SLANU	2.66GHz 1333MHz 12MB Quad-Core Intel® Xeon® Processor E5420
BX80574E5420A	894828	SLANV	2.50GHz 1333MHz 12MB Quad-Core Intel® Xeon® Processor E5420
BX80574E5410A	894829	SLANW	2.33GHz 1333MHz 12MB Quad-Core Intel® Xeon® Processor E5410

Supported Tray Processors

Tray processors do not come with heatsinks. Please purchase the active 1U design and remove the fan when installing into MFS5000SI

Product Code	MM	SL	Description
80556KH0254M	890632	SLABR	1.60GHz 1066MHz 4MB Dual-Core Intel® Xeon® Processor 5110
80556KH0254M	891733	SLAGE	1.60GHz 1066MHz 4MB Dual-Core Intel® Xeon® Processor 5110
80563QJ0538M	887286	SL9YL	2.33GHz 1333MHz 8MB Quad-Core Intel® Xeon® Processor E5345
80563QJ0538M	890660	SLAC5	2.33GHz 1333MHz 8MB Quad-Core Intel® Xeon® Processor E5345
80563QJ0538M	891115	SLAEJ	2.33GHz 1333MHz 8MB Quad-Core Intel® Xeon® Processor E5345
80563QJ0418M	887285	SL9YK	2.00GHz 1333MHz 8MB Quad-Core Intel® Xeon® Processor E5335
80563QJ0418M	890663	SLAC7	2.00GHz 1333MHz 8MB Quad-Core Intel® Xeon® Processor E5335
80563QJ0418M	891116	SLAEK	2.00GHz 1333MHz 8MB Quad-Core Intel® Xeon® Processor E5335
80563QH0368M	884514	SL9MV	1.86GHz 1066MHz 8MB Quad-Core Intel® Xeon® Processor E5320
80563QH0368M	890665	SLAC8	1.86GHz 1066MHz 8MB Quad-Core Intel® Xeon® Processor E5320
80563QH0368M	891118	SLAEL	1.86GHz 1066MHz 8MB Quad-Core Intel® Xeon® Processor E5320

80563QH0258M	886588	SL9XR	1.60GHz 1066MHz 8MB Quad-Core Intel® Xeon® Processor E5310
80563QH0258M	890662	SLACB	1.60GHz 1066MHz 8MB Quad-Core Intel® Xeon® Processor E5310
80563QH0258M	891121	SLAEM	1.60GHz 1066MHz 8MB Quad-Core Intel® Xeon® Processor E5310
80574KJ080N	893481	SLANQ	3.00GHz 1333MHz 12MB Quad-Core Intel® Xeon® Processor E5450
80574KJ073N	893484	SLANS	2.83GHz 1333MHz 12MB Quad-Core Intel® Xeon® Processor E5440
80574KJ067N	893483	SLANU	2.66GHz 1333MHz 12MB Quad-Core Intel® Xeon® Processor E5420
80574KJ060N	893486	SLANB	2.50GHz 1333MHz 12MB Quad-Core Intel® Xeon® Processor E5420
80574KJ053N	893487	SLANW	2.33GHz 1333MHz 12MB Quad-Core Intel® Xeon® Processor E5410