



# **Intel<sup>®</sup> 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 2.9**

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**Enterprise Platforms and Services Marketing**

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## Revision History

Mar '12	Rev 2.6b	BETA WIP. Added King Island compute module (MFS2600KI), Xeon® E5-2600 SKUs, VMware and Symantec SKUs
Apr '12	Rev 2.6c	SILVER WIP. Added silver King Island compute module (MFS2600KISPP)
May '12	Rev 2.6d	GOLD WIP. Add On-site Repair and Extended Warranty SKUs, updated VMware SKUs, removed MFCMM, MIDPLANE
Jun '12	Rev 2.7	GOLD FINAL. Removed MFS2600KISPP (silver) SKU
Nov '12	Rev 2.8	Removed MFSVRT, added TPM module (AXXTPME5)
Dec '12	Rev 2.9	Removed VMware, Symantec, and Intel® On-Site Repair SKUs

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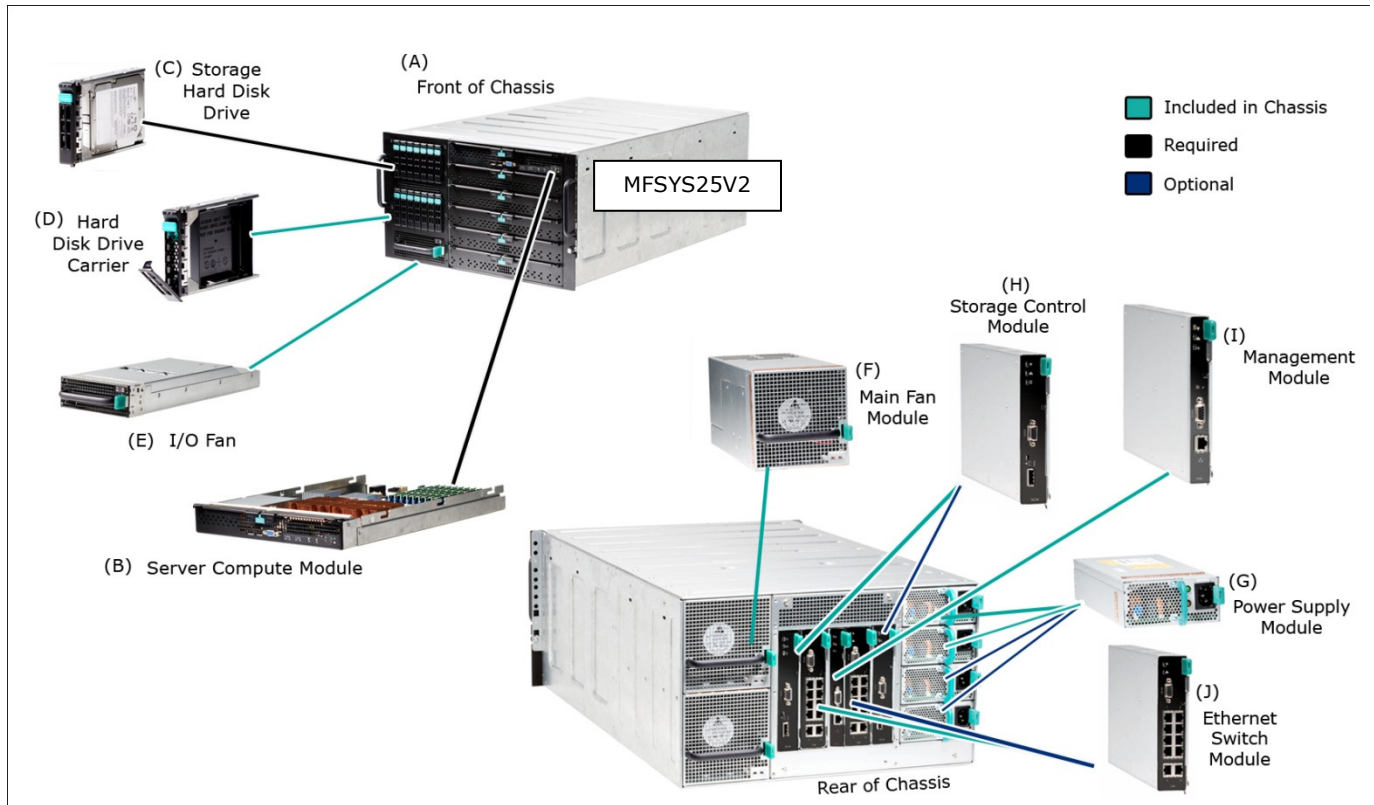
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# The Intel® Modular Server Configuration Chart



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|---|--|
| <p>A) Chassis</p> <ul style="list-style-type: none"> <li>- Up to 6 Server Compute Modules</li> </ul> <p>B) Server Compute Module: Required</p> <ul style="list-style-type: none"> <li>- MFS2600KI or MFS5520VIR</li> <li>- Supports multi-core Intel® Xeon® Processors</li> <li>- Up to 16 DDR3 DIMMs, depending on compute module</li> <li>- Supports Optional Dual Gigabit Mezzanine expansion card</li> </ul> <p>C) Storage Hard Disk Drive: Required</p> <ul style="list-style-type: none"> <li>- Up to fourteen 2.5" SAS drives on MFSYS25V2</li> </ul> <p>D) Hard Disk Drive Carrier:</p> <ul style="list-style-type: none"> <li>- 14 are included in MFSYS25V2</li> </ul> <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"> <li>- N + 1 Redundancy</li> </ul> <p>H) Storage Control Module: 1 Included, 1 Optional</p> <ul style="list-style-type: none"> <li>- Up to 2 Storage Control Modules for redundancy</li> </ul> <p>I) Management Module: Included</p> <p>J) Ethernet Switch Module: 1 Included, 1 Optional</p> <ul style="list-style-type: none"> <li>- Up to 2 Ethernet Switch Modules</li> <li>- Each module features 10/100/1000GbE Full Duplex Ports</li> </ul> |
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## \*\* 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 up to 3 compute modules (in any slot) plus all other modules in the system
- Three power supplies will support up 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
MFSYS25V2	910774	<b>Intel® Modular Server System MFSYS25V2</b> , chassis 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, compute modules or power cords. *Contains new MFCMM2 & MF MIDPLANE2
MFS5520VIBR	905717	<b>Intel® Compute Module MFS5520VIR (bulk pack)</b> , server board in a diskless compute module enclosure. It will include two passive heatsinks but not include CPUs or memory. <i>**Bulk packs are still ordered as individual units, therefore qty's of 3 must be ordered.</i>
MFS5520VIR	905716	<b>Intel® Compute Module MFS5520VIR</b> , server board in a diskless compute module enclosure. It will include two passive heatsinks but not include CPUs or memory.
MFS2600KI	919955	<b>Intel® Compute Module MFS2600KI</b> , server board in a diskless compute module enclosure. Includes two passive heatsinks but no CPUs or memory.
MFS2600KIB	920014	<b>Intel® Compute Module MFS2600KI (3 Pack)</b> , server board in a diskless compute module enclosure. Includes two passive heatsinks but no CPUs or memory. <i>**Bulk packs are still ordered as individual units, therefore qty's of 3 must be ordered.</i>

## Optional Spares & Accessories

Product Code	MM	Description
AXXTPME5	919737	TPM Module for server systems supporting S2600 and S2400 board families, including Intel® Compute Module MFS2600KI
MFCMM2	910036	<b>Intel® Management Module MFCMM2</b> , management module for MFSYS25V2
MF MIDPLANE2	910888	Midplane for MFSYS25V2 chassis which includes SD Flash
AXXSCM3S	891831	<b>Intel® Storage Controller</b> , SAS storage module (including battery backup)
AXXSW1GB	891842	<b>Intel® Gigabit Ethernet Switch</b> , GB ethernet switch module
AXXPSU	902463	1000Watt Power Supply Module
AXXGBIOMEZ	891844	(Bulk pack) Dual Gigabit Ethernet I/O Expansion Mezzanine Card for MFS5000SI (Qty 3 in box) <i>**Bulk packs are still ordered as individual units, therefore qty's of 3 must be ordered.</i>
AXXGBIOMEZV	901362	(Bulk pack) Dual Gigabit Ethernet I/O Expansion Mezzanine Card for MFS5520VIR and MFS2600KI compute modules (Qty 3 in box) <i>**Bulk packs are still ordered as individual units, therefore qty's of 3 must be ordered.</i>
AXXMFRAIL	908287	Tool-less Rail kit. Ordering code changed per PCN110223 - 00
AXXTM3SATA	903639	(Bulk pack) 2.5" SATA to SAS Converter Board (Qty 5 in box) <i>**Bulk packs are still ordered as individual units, therefore qty's of 5 must be ordered.</i>

## Optional Spares & Accessories Cont'd

Product Code	MM	Description
MFSLUNKEY	901238	Intel® Shared LUN Paper Pack ID Key
MFSLUNCOPY	903085	Intel® Modular Server Storage Management Pack (formerly LUN Copier) Paper Pack ID Key
MFSADVMGMT	906993	Intel® Modular Server Advanced Management Pack Paper Pack ID Key
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
MFHDDBAY35	892139	3.5" HDD Bay Module. Kit includes interposer & storage backplane, bezel with 8 screws. No HDD carriers. To use MFHDDBAY35 in MFSYS25, new MFIOFAN is required if not using MFSYS25 TA# D91400-008 or greater.
MFPSUFAN	892195	Blank Power Supply Fan module
MFMAINFAN	892170	Main Fan module
MFIOFAN	899168	IO Fan module. When using MFHDDBAY35 in MFSYS25, MM# 899168 is required if not using MFSYS25 with TA# D91400-006 or greater.
FXX25HDDCAR	881681	2.5" hard drive carrier blank – spare. As used on other EPSD systems. MOQ: 10
FPWRCABLENA	879287	Power Cord – North American
FXX10DVCARBLK	880265	3.5" hard drive carrier blank – spare. As used on other EPSD systems. MOQ: 10
SVCEWMFSY	911296	Two year extended warranty for Intel® Modular Server Systems that support two processors. Available in the US, Canada, EU, Switzerland and South Africa.
SVCEWMFCP	911297	Two year extended warranty for Intel® Modular Server Compute Modules. Available in the US, Canada, EU, Switzerland and South Africa.

## Supported Boxed Processors for MFS2600KI

Product Code	SL	MM	Description
BX80621E52603	SR0LB	919828	Boxed Intel® Xeon® Processor E5-2603 (10M Cache, 1.80 GHz, 6.40 GT/s Intel® QPI) FC-LGA10
BX80621E52609	SR0LA	919829	Boxed Intel® Xeon® Processor E5-2609 (10M Cache, 2.40 GHz, 6.40 GT/s Intel® QPI) FC-LGA10
BX80621E52620	SR0KW	919838	Boxed Intel® Xeon® Processor E5-2620 (15M Cache, 2.00 GHz, 7.20 GT/s Intel® QPI) FC-LGA10
BX80621E52630	SR0KV	919839	Boxed Intel® Xeon® Processor E5-2630 (15M Cache, 2.30 GHz, 7.20 GT/s Intel® QPI) FC-LGA10
BX80621E52640	SR0KR	919840	Boxed Intel® Xeon® Processor E5-2640 (15M Cache, 2.50 GHz, 7.20 GT/s Intel® QPI) FC-LGA10
BX80621E52650	SR0KQ	919841	Boxed Intel® Xeon® Processor E5-2650 (20M Cache, 2.00 GHz, 8.00 GT/s Intel® QPI) FC-LGA10
BX80621E52660	SR0KK	919842	Boxed Intel® Xeon® Processor E5-2660 (20M Cache, 2.20 GHz, 8.00 GT/s Intel® QPI) FC-LGA10

## Supported Tray Processors for MFS2600KI

Product Code	SL	MM	Description
CM8062100856501	SR0LB	919254	Intel® Xeon® Processor E5-2603 (10M Cache, 1.80 GHz, 6.40 GT/s Intel® QPI) FC-LGA10, Tray
CM8062107186604	SR0LA	919251	Intel® Xeon® Processor E5-2609 (10M Cache, 2.40 GHz, 6.40 GT/s Intel® QPI) FC-LGA10, Tray
CM8062101048401	SR0KW	919196	Intel® Xeon® Processor E5-2620 (15M Cache, 2.00 GHz, 7.20 GT/s Intel® QPI) FC-LGA10, Tray
CM8062101038801	SR0KV	919193	Intel® Xeon® Processor E5-2630 (15M Cache, 2.30 GHz, 7.20 GT/s Intel® QPI) FC-LGA10, Tray
CM8062107185405	SR0KM	919077	Intel® Xeon® Processor E5-2630L (15M Cache, 2.00 GHz, 8.00 GT/s Intel® QPI) FC-LGA10, Tray
CM8062100856401	SR0KR	919160	Intel® Xeon® Processor E5-2640 (15M Cache, 2.50 GHz, 7.20 GT/s Intel® QPI) FC-LGA10, Tray
CM8062100856218	SR0KQ	919090	Intel® Xeon® Processor E5-2650 (20M Cache, 2.00 GHz, 8.00 GT/s Intel® QPI) FC-LGA10, Tray
CM8062107185309	SR0KL	919073	Intel® Xeon® Processor E5-2650L (20M Cache, 1.80 GHz, 8.00 GT/s Intel® QPI) FC-LGA10, Tray
CM8062107184801	SR0KK	919070	Intel® Xeon® Processor E5-2660 (20M Cache, 2.20 GHz, 8.00 GT/s Intel® QPI) FC-LGA10, Tray

## Supported Boxed Processors for MFS5520VIR

Product Code	MM	SL	Description
BX80602X5570	901025	SLBF3	2.93GHz 1333MHz 8MB Quad-Core Intel® Xeon® Processor X5570
BX80602X5560	901026	SLBF4	2.8GHz 1333MHz 8MB Quad-Core Intel® Xeon® Processor X5560
BX80602X5550	901027	SLBF5	2.66GHz 1333MHz 8MB Quad-Core Intel® Xeon® Processor X5550
BX80602E5540	901028	SLBF6	2.53GHz 1066MHz 8MB Quad-Core Intel® Xeon® Processor E5540
BX80602E5530	901029	SLBF7	2.4GHz 1066MHz 8MB Quad-Core Intel® Xeon® Processor E5530
BX80602E5520	901030	SLBFD	2.26GHz 1066MHz 8MB Quad-Core Intel® Xeon® Processor E5520
BX80602E5506	901031	SLBF8	2.13GHz 800MHz 4MB Quad-Core Intel® Xeon® Processor E5506
BX80602E5504	901032	SLBF9	2GHz 800MHz 4MB Quad-Core Intel® Xeon® Processor E5504
BX80602E5502	901022	SLBEZ	1.86GHz 800MHz 4MB Dual-Core Intel® Xeon® Processor E5502
BX80602L5530	903280	SLBGF	2.4GHz 1066MHz 8MB Quad-Core Intel® Xeon® Processor L5530
BX80614X5670	907466	SLBV7	2.93GHz, 12MB L3 Cache, 1333 MHz, 6C Intel® Xeon® Processor X5670
BX80614X5660	907464	SLBV6	2.80GHz, 12MB L3 Cache, 1333 MHz, 6C Intel® Xeon® Processor X5660
BX80614X5650	907463	SLBV3	2.66GHz, 12MB L3 Cache, 1333 MHz, 6C Intel® Xeon® Processor X5650
BX80614E5640	907460	SLBVC	2.66GHz, 12MB L3 Cache, 1066 MHz, 4C Intel® Xeon® Processor E5640
BX80614E5630	907459	SLBVB	2.53GHz, 12MB L3 Cache, 1066 MHz, 4C Intel® Xeon® Processor E5630
BX80614E5620	907461	SLBV4	2.4GHz, 12MB L3 Cache, 1066 MHz, 4C Intel® Xeon® Processor E5620
BX80614L5640	907462	SLBV8	2.26GHz, 12MB L3 Cache, 1333 MHz, 6C Intel® Xeon® Processor L5640
BX80614L5630	907465	SLBVD	2.13GHz, 12MB L3 Cache, 1066 MHz, 4C Intel® Xeon® Processor L5630



## Supported Tray Processors for MFS5520VIR

Product Code	MM	SL	Description
AT80602000765AA	900835	SLBF3	2.93GHz 1333MHz 8MB Quad-Core Intel® Xeon® Processor X5570
AT80602000768AA	900836	SLBF4	2.8GHz 1333MHz 8MB Quad-Core Intel® Xeon® Processor X5560
AT80602000771AA	900837	SLBF5	2.66GHz 1333MHz 8MB Quad-Core Intel® Xeon® Processor X5550
AT80602000789AA	900838	SLBF6	2.53GHz 1066MHz 8MB Quad-Core Intel® Xeon® Processor E5540
AT80602000792AA	900839	SLBF7	2.4GHz 1066MHz 8MB Quad-Core Intel® Xeon® Processor E5530
AT80602002091AA	900840	SLBFD	2.26GHz 1066MHz 8MB Quad-Core Intel® Xeon® Processor E5520
AT80602000798AA	900841	SLBF8	2.13GHz 800MHz 4MB Quad-Core Intel® Xeon® Processor E5506
AT80602000801AA	900842	SLBF9	2GHz 800MHz 4MB Quad-Core Intel® Xeon® Processor E5504
AT80602000804AA	900400	SLBEZ	1.86GHz 800MHz 4MB Dual-Core Intel® Xeon® Processor E5502
AT80602002937AB	901504	SLBGF	2.4GHz 1066MHz 8MB Quad-Core Intel® Xeon® Processor L5530
AT80602000810AA	900843	SLBFA	2.26GHz 1066MHz 8MB Quad-Core Intel® Xeon® Processor L5520
AT80602002712AA	900833	SLBFH	2.13GHz 800MHz 4MB Quad-Core Intel® Xeon® Processor L5506
AT80614005130AA	907411	SLBV7	2.93GHz, 12MB L3 Cache, 1333 MHz, 6C Intel® Xeon® Processor X5670
AT80614005127AA	907409	SLBV6	2.80GHz, 12MB L3 Cache, 1333 MHz, 6C Intel® Xeon® Processor X5560
AT80614004320AD	907406	SLBV3	2.66GHz, 12MB L3 Cache, 1333 MHz, 6C Intel® Xeon® Processor X5650
AT80614005466AA	907416	SLBVC	2.66GHz, 12MB L3 Cache, 1066 MHz, 4C Intel® Xeon® Processor E5640
AT80614005463AA	907415	SLBVB	2.53GHz, 12MB L3 Cache, 1066 MHz, 4C Intel® Xeon® Processor E5630
AT80614005073AB	907407	SLBV4	2.4GHz, 12MB L3 Cache, 1066 MHz, 4C Intel® Xeon® Processor E5620
AT80614005133AB	907412	SLBV8	2.26GHz, 12MB L3 Cache, 1333 MHz, 6C Intel® Xeon® Processor L5640
AT80614005484AA	907417	SLBVD	2.13GHz, 12MB L3 Cache, 1066 MHz, 4C Intel® Xeon® Processor L5630