

Intel® Server Board X38ML Intel® Server System SR1520ML

Spares/Parts List and Configuration Guide – for Beta & Production Products

A reference guide to assist customers in ordering the Intel® Server Board X38ML
~Subject to Change without Notice~

Rev 1.2 – Production

July 7, 2008



Intel® Server Board X38ML board



Intel® Server System SR1520ML
(shown with handles removed, includes two light weight heat
sinks, blowers, air ducts, two X38ML boards, and 600W high
efficiency power supply)

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A. Product Description

X38ML Board Description

The Intel® Server Board X38ML is available in three SKUs:

1. **Single box board** – includes a single board, management software pack
2. **OEM 10-pack** – includes 10 boards in a single 10-pack box. No software or accessories are included.
3. **Integrated 1U system** – includes chassis, power supply, drive carriers, and two X38ML board installed

Note: None of the SKUs come with cables, I/O shields or any accessories. They are dependent on the specific implementation and the chassis vendor will typically provide the I/O shield, risers, and cables that are unique to that design.

Listed below are the common features for the Intel® Server Board X38ML and Intel Server System SR1520ML

- New 6x13" form factor that enables 2 servers per 1U chassis.
- Intel® X38 Chipset with up to 1333MHz system bus
- Support for DDR2 memory (667/800 MHz, un-buffered ECC or non-ECC)
- Support for the following processors in the LGA-775 socket (see support.intel.com for complete list)
 - Intel® Core™2 Duo processor
 - Intel® Core™2 Quad processor
 - Intel Core 2 Extreme dual-core processor
 - Intel Core 2 Extreme quad-core processor
 - Quad-Core Intel® Xeon® processor 3200 series
 - Dual-Core Intel Xeon® processor 3000 series
- integrated Dual Intel® Gigabit Ethernet Controller
- Integrated 4-port 3.0Gbps SATA – with support for RAID levels 0, 1, 10
- Small form factor 18 pin horizontal power connector (vertical power connector from S3000PT has been discontinued)

B. X38ML –Production Order Codes

X38ML PRODUCTION Board and System SKUs (Available in October 2007)

| Product Code | MM# | UPC | Description | Min. Order |
|--------------|--------|----------------|--|------------|
| X38ML | 899905 | 00735858197397 | Boxed single Intel® Server Board X38ML (HORIZ. PWR CONN) 4 DDR2 DIMMS, four SATA Ports, 6' x 13" form factor. RoHS Compliant and Pb-free 2nd | 4 |

| | | | | |
|------------|--------|----------------|--|----|
| | | | level interconnect. | |
| BMLBB | 899904 | 00735858197410 | OEM 10-pack of Intel® Server Board X38ML, (HORIZ. PWR CONN), 4 DDR2 DIMMS, four SATA Ports, 6' x 13" form factor. RoHS Compliant and Pb-free 2nd level interconnect. | 10 |
| SR1520ML | 892581 | 00735858197403 | 1U integrated system with two X38ML boards, two heat sinks, two x16 risers, power supply, and chassis | 1 |
| SR1520MLNA | 892600 | 00735858197434 | 1U integrated system with two X38ML boards, two heat sinks, two x16 risers, power supply, and chassis. Also includes North American power cord. | 1 |

C. Chassis – Production Order Codes

Server Chassis Ordering Information

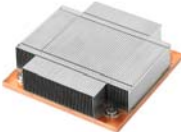
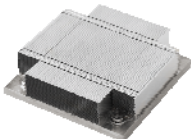

The Intel Server chassis is not available separately. It is only available with two X38ML boards installed. Customers may also develop their own chassis or use one of the reference chassis identified in the Reference Chassis List in the Compatibility section of the product support page at <http://support.intel.com/>

D. Third Party Reference Chassis and Accessory Resources

| Vendor | Part Number | Description and URL | Contact | Phone # |
|----------|-------------|---|-------------|--|
| Evercase | TBD | 1U full depth rack-mount chassis with support for two Intel® X38ML server boards, two fixed 3.5" SATA HDDs (one per board), and two dedicated high efficiency power supplies (one per board). http://www.evercase.com | Mark Lin | (408) 894-9003 x110 mark_lin@evercase.com |
| Avnet | TBD | 1U short depth rack-mount chassis with support for two Intel® X38ML server boards, two fixed 2.5" SATA HDDs (one per board), and one high efficiency power supply. http://www.avnet.com | Derek Dezso | (480) 794-8722 Derek.Dezso@avnet.com |

E. Intel Accessories and Spares – Order Codes

Optional Accessories for X38ML board

| Product Code | MM# | UPC | Description | Picture | Min. Order Qty. |
|----------------|--------|----------------|---|--|-----------------|
| AXXUPHS* | 886893 | 00735858191258 | Intel 1U passive heat sink with embedded heat pipe and copper base. |  | 10 |
| AXXUPHSLW** | 892592 | 00735858197427 | Intel 1U passive heat sink with aluminum base (light weight). |  | 10 |
| AXXIBDDRPT | 888413 | 00735858192156 | Infiniband* DDR HCA card, 20Gb/s, PCI Express x8 for Intel® Server Board S3000PT and Intel® Server Board X38ML. Shipping now. |  | 1 |
| AXXZU130KIT | 892675 | 00735858196291 | Mounting kit for Intel® Z-U130 Value Solid State Drive. Includes holder, cable, and interposer card | | 10 |
| AXXPCIE16RISER | 892597 | 00735858197441 | PCI Express x16 Riser spare for SR1520ML and SR1520MLNA systems | | 1 |
| FSR1520PS | 897394 | 00735858201117 | Intel Server System SR1520ML 600W Power Supply Spare | | 1 |
| FXX1520MLFAN | 897396 | 00735858201124 | Intel Server System SR1520ML fan and blower spare kit | | 1 |

Note:

*The AXXUPHS has been mechanically validated for use with the S3000PT and X38ML server boards with direct chassis attach implementations. However, each customer will have a unique chassis implementation and it will be up to each customer to test and validate their system at the appropriate shock and vibration levels that they feel are necessary for their specific application.

**The AXXUPHSLW is a new aluminum design that is design for non-direct attach implementations (using a back plate).

End of Configuration Guide