Intel® Embedded Server RAID Technology II
Basic RAID Functionality for Entry-Level Servers

Intel® RAID solutions are designed, optimized, and tested for Intel servers for excellent performance, and data protection capabilities. A one-of-a-kind testing and quality assurance process ensures simplified use in Intel servers.

Intel® Embedded Server RAID Technology is host-based RAID that utilizes the chipset, processors, and memory of the server board to provide basic data protection. This is the entry-level standard for Intel® Xeon® processor 5000 sequence-based server boards.

Intel Embedded RAID technology includes advanced technologies and world-class features that supports up to six SATA drives or eight SAS/SATA drives, depending on the server board or system. If you require more drive support, you can seamlessly upgrade to Intel® Integrated RAID and/or an Intel® RAID controller add-in card. Host-based RAID 0/1/10 is included with Intel server boards and systems, and RAID 5 upgrade is available with Activation Key AXXRAKSW5.

Why Intel® Embedded RAID?
- Excellent capabilities for entry-level systems using up to 6 SATA drives or 8 SAS/SATA drives. (Optional SAS motherboard or SAS I/O module required for 8 SAS/SATA drive capability.)
- Comes standard with any Intel® Xeon® processor 5000 sequence-based server boards.
- Includes a RAID 5 upgrade with activation key AXXRAKSW5.

Why Intel® RAID Solutions
- Industry leading performance, and simplified data protection across all RAID levels.
- Reduces total cost of ownership by shopping Intel for servers and controllers.
- Validated using more than 10 times the testing of most other RAID cards tested by Intel.
- Single Web-based RAID software stack to support all products.
- Easy to deploy, and seamless upgrades available.
## Intel Embedded RAID Technology II

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drive Fault Tolerance</td>
<td>Yes</td>
</tr>
<tr>
<td>Hard Reset/Power Loss Tolerance</td>
<td>No. Hardware RAID required.</td>
</tr>
<tr>
<td>Event Log Detail</td>
<td>Limited vs. Hardware RAID</td>
</tr>
<tr>
<td>I/O Response</td>
<td>Baseline I/O response. Hardware RAID offers up to 100x better response.</td>
</tr>
<tr>
<td>RAID Levels</td>
<td>0, 1, 5, and 10. Raid 5 with AXXRAKSw5 activation key.</td>
</tr>
<tr>
<td>Drive Support</td>
<td>Supports up to eight physical drives, and eight virtual drives.</td>
</tr>
<tr>
<td>Auto Re-build Support</td>
<td>Yes</td>
</tr>
<tr>
<td>Strip Size</td>
<td>64KB only</td>
</tr>
<tr>
<td>Hot Spare Support</td>
<td>Yes with limited capabilities vs. Hardware RAID.</td>
</tr>
</tbody>
</table>

**Want More? Intel Hardware RAID Solutions Offer:**

- Superior I/O response
- Embedded cache and battery backup
- Revertible hot-spare
- Solid State Drive Support
- SSD Guard*
- Dimmer Switch*
- VMware* ESXi Virtualization Support
- Broader OS Support

For more information on Intel® RAID Controllers, visit [www.intel.com/go/RAID](http://www.intel.com/go/RAID)