



## Intel® Ethernet Controller EEPROM/NVM Requirements (Revision 1.4)

Device	Minimum EEPROM/NVM Size	Recommended EEPROM/NVM Size
82599	<ul style="list-style-type: none"> <li>No manageability – 2 KB (16 Kb)</li> <li>No manageability, SFI Interface – 8 KB (64 Kb)</li> <li>SMBus/NC-SI - 16 KB (128 Kb)</li> </ul>	<ul style="list-style-type: none"> <li>No manageability – 4 KB (32 Kb)</li> <li>No manageability, SFI Interface – 8 KB (64 Kb)</li> <li>SMBus/NC-SI - 32 KB (256 Kb)</li> </ul>
82598	<ul style="list-style-type: none"> <li>No manageability – 2 KB (16 Kb)</li> <li>SMBus/NC-SI - 32 KB (256 Kb)</li> </ul>	<ul style="list-style-type: none"> <li>No manageability – 4 KB (32 Kb)</li> <li>SMBus/NC-SI - 32 KB (256 Kb)</li> </ul>
82576	<ul style="list-style-type: none"> <li>No manageability – 16 KB (128 Kb)</li> <li>SMBus/NC-SI – 32 KB (256 Kb)</li> </ul>	
82575	<ul style="list-style-type: none"> <li>No manageability – 16 KB (128 Kb)</li> <li>SMBus/NC-SI – 32 KB (256 Kb)</li> <li>iSCSI – 16 KB (128 Kb)</li> </ul>	<ul style="list-style-type: none"> <li>ASF 2.0 – 16 KB (128 Kb)</li> <li>PXE only – 16 KB (128 Kb)</li> <li>PXE &amp; EFI – 16 KB (128 Kb)</li> </ul>
82574	<ul style="list-style-type: none"> <li>SMBus/NC-SI - 32 KB (256 Kb)</li> <li>No manageability 1 Kb or 2 Kb</li> </ul>	<ul style="list-style-type: none"> <li>SMBus/NC-SI - 32 KB (256 Kb)</li> <li>No manageability – 1 Kb or 2 Kb</li> </ul>
631xESB/ 632xESB	<ul style="list-style-type: none"> <li>No manageability – 4 KB (32 Kb)</li> <li>Full BMC, pass through and ASF 2.0 – 16 KB (128 Kb)</li> </ul>	<ul style="list-style-type: none"> <li>No manageability – 4 KB (32 Kb)</li> </ul>
82573	<ul style="list-style-type: none"> <li>No manageability – 1 Kb</li> <li>Reserved for the LAN image and dedicated Flash without Intel® AMT – 16 KB (128 Kb)</li> <li>TCO mode – 16 KB (128 Kb)</li> <li>ASF 2.0 – 32 KB (256 Kb)</li> <li>8 Mb to 16 Mb total for mobile and 4 Mb to 16 Mb total for desktop (shared Flash without Intel® AMT)</li> </ul>	<ul style="list-style-type: none"> <li>TCO mode – 16 KB (128 Kb)</li> </ul>
82573E	<ul style="list-style-type: none"> <li>4 Mb (Intel® AMT and dedicated Flash with Intel® AMT)</li> <li>8 Mb to 16 Mb total (shared Flash with Intel® AMT)</li> </ul>	
82571/ 82572	<ul style="list-style-type: none"> <li>No manageability – 16 KB (128 Kb)</li> <li>Full BMC, pass through and ASF 2.0 – 16 KB (128 Kb)</li> </ul>	<ul style="list-style-type: none"> <li>No manageability – 16 KB (128 Kb)</li> </ul>

KB = Kilobytes

Kb = Kilobits

BMC = Baseboard Manageability Controller

Intel® AMT = Intel® Active Management Technology

**Note:** For suggested EEPROM/NVM vendor part numbers and programming information, refer to the respective device's EEPROM/NVM Programming Information Guides, Design Guides, and Datasheets.

Information in this document is provided in connection with Intel products. No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document. Except as provided in Intel's Terms and Conditions of Sale for such products, Intel assumes no liability whatsoever, and Intel disclaims any express or implied warranty, relating to sale and/or use of Intel products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright or other intellectual property right. Intel products are not intended for use in medical, life saving, or life sustaining applications. Intel may make changes to specifications and product descriptions at any time, without notice.

Intel assumes no responsibility for errors or omissions in this document. Nor does Intel make any commitment to update the information herein.

\*Other product and corporate names may be trademarks or registered trademarks of other companies, and are used only for explanation and to the owners' benefit, without intent to infringe.

COPYRIGHT © INTEL CORPORATION 2009



## Intel® Ethernet Controller EEPROM/NVM Requirements (Revision 1.4)

Device	Minimum EEPROM/NVM Size	Recommended EEPROM/NVM Size
82566	<ul style="list-style-type: none"><li>No manageability – 8 KB (64 Kb)</li><li>Intel® AMT - 32 Mb</li></ul>	
82562	<ul style="list-style-type: none"><li>No manageability - 1 Kb</li><li>ASF 1.0 or 2.0 and TCO mode –8 KB (64 Kb)</li></ul>	
82551	<ul style="list-style-type: none"><li>No manageability - 1 Kb</li><li>ASF 1.0 and TCO mode – 8 KB (64 Kb)<sup>1</sup></li></ul>	
82545/82546	<ul style="list-style-type: none"><li>No manageability - 1 Kb</li><li>ASF 1.0 and TCO mode – 8 KB (64 Kb)</li></ul>	
82541/82547	<ul style="list-style-type: none"><li>No manageability - 1 Kb</li><li>ASF 1.0 and TCO mode – 8 KB (64 Kb)</li></ul>	
82540	<ul style="list-style-type: none"><li>No manageability - 1 Kb</li><li>ASF 1.0 and TCO mode – 8 KB (64 Kb)</li></ul>	

<sup>1</sup> 82551QM only

KB = Kilobytes

Kb = Kilobits

BMC = Baseboard Manageability Controller

Intel® AMT = Intel® Active Management Technology

**Note:** For suggested EEPROM/NVM vendor part numbers and programming information, refer to the respective device's EEPROM/NVM Programming Information Guides, Design Guides, and Datasheets.

Information in this document is provided in connection with Intel products. No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document. Except as provided in Intel's Terms and Conditions of Sale for such products, Intel assumes no liability whatsoever, and Intel disclaims any express or implied warranty, relating to sale and/or use of Intel products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright or other intellectual property right. Intel products are not intended for use in medical, life saving, or life sustaining applications. Intel may make changes to specifications and product descriptions at any time, without notice.

Intel assumes no responsibility for errors or omissions in this document. Nor does Intel make any commitment to update the information herein.

\*Other product and corporate names may be trademarks or registered trademarks of other companies, and are used only for explanation and to the owners' benefit, without intent to infringe.

COPYRIGHT © INTEL CORPORATION 2009