



3.2 Introduction to Firmware Module

Maxtor Firmware 'Modules' have no specific names except for some of the particularly important modules, which include their names in the headers. There is no way to tell the module name until the content of the module is read. However the following list details the functionalities of the various modules. The modules are grouped according to their function.

<p>HDD Parameter (Module 31)</p>	<p>This module contains the Model number, Serial number, Maximum LBA, Physical Head Map and the Number of Heads.</p> <pre> Offset 0 1 2 3 4 5 6 7 8 9 A B C D E F 00000000 44 49 53 4B 02 00 03 00 04 00 05 00 FF FF FF FF DISKyyyy 00000010 FF FF FF FF 20 5F A0 12 04 00 04 00 20 5F A0 12 yyyy 00000020 3C 00 3C 00 34 59 38 44 50 4D 45 44 20 20 20 20 <<<.4Y8DPNED 00000030 20 20 20 20 20 20 20 20 61 4D 74 78 72 6F 36 20 aMtxro6 00000040 31 59 30 36 30 4D 20 20 20 20 20 20 20 20 20 20 1Y060M 00000050 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 00000060 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00000070 00 00 00 00 00 00 00 00 00 00 00 00 00 00 64 00d. 00000080 64 00 32 00 4B 20 00 00 00 00 00 00 00 00 00 00 d.2.K 00000090 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 000000A0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 000000B0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 000000C0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 000000D0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 000000E0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 000000F0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00t..aMtxro6 1Y 00001000 01 00 00 74 15 13 61 4D 74 78 72 6F 36 20 31 59864M 00001100 38 36 34 4D 20 20 20 20 20 20 20 20 20 20 20 20t 00001200 20 20 20 20 20 20 20 20 20 20 20 20 20 20 00 74aMtxro6 1Y064M 00001300 15 13 61 4D 74 78 72 6F 36 20 31 59 30 36 34 4D 00001400 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 00001500 20 20 20 20 20 20 20 20 20 20 20 00 00 00 00 00 00001600 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00001700 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00001800 00 00 00 00 00 00 80 F7 4F 0E 61 4D 74 78 72 6F 00001900 36 20 31 59 30 32 34 4D 20 20 20 20 20 20 20 20 00001A00 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 00001B00 20 20 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00001C00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00001D00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00001E00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00001F00 00 00 00 00 00 00 00 00 00 00 3C 00 00 00 39 6F<...9e </pre>
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<p>4449 534B</p> <p>0200 0300 0400 0500 FFFF FFFF</p> <p>FFFF FFFF</p> <p>3C00</p> <p style="text-align: center;">3 C</p> <hr style="width: 20%; margin: auto;"/> <p>Binary 0 0 1 1 1 1 0 0</p> <p>Head (0 1 2 3 4 5 6 7)</p>	<p>DISK module header;</p> <p>These eight 2-Byte words limit the maximum number of heads ...</p> <p>The first 4 bytes of address 0x00000020 and the 10th and 11th bytes of address 0x000001F0 are 0x3C00 (0x3C=00111100b)...</p>
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In this example, if head 3 was to be disabled, the contents of module 31 would need to be changed to...