

AMD 1090T

AMD Phenom II X6 1090T Processor User Manual

Model: 1090T (HDT90ZFBGRBOX)

Brand: AMD

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your AMD Phenom II X6 1090T processor. Please read this manual thoroughly before proceeding with installation to ensure correct setup and optimal performance.

2. PRODUCT OVERVIEW

The AMD Phenom II X6 1090T is a high-performance six-core processor designed for demanding computing tasks. It features a base clock speed of 3.2 GHz and includes AMD's Turbo Core technology for optimized performance.

Key Features

- Six 3.2 GHz processing cores
- Unlocked multiplier for advanced configuration
- Turbo Core technology for dynamic performance optimization
- Fast, ultra-wide bandwidth for efficient memory access
- Designed for multi-threaded applications and modern gaming



Image: Retail packaging for the AMD Phenom II X6 Black Edition processor, showcasing the product name and key features on a black box.

3. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and longevity of your processor.

Before You Begin

- Ensure your motherboard supports the AM3 socket and is compatible with the AMD Phenom II X6 series. Consult your motherboard's manual for CPU compatibility and BIOS update requirements.
- Gather necessary tools: thermal paste, screwdriver, anti-static wrist strap (recommended).
- Ensure your system is powered off and unplugged from the wall outlet.
- Work in a clean, static-free environment.

Processor Installation Steps

1. **Prepare the Motherboard:** Locate the CPU socket on your motherboard. Lift the small metal lever next to the socket to open it.
2. **Handle the Processor:** Carefully remove the processor from its protective packaging. Hold the processor by its edges, avoiding contact with the gold pins on the underside.
3. **Align the Processor:** Identify the golden triangle or arrow on one corner of the processor and align it with the corresponding mark on the CPU socket.
4. **Insert the Processor:** Gently lower the processor straight down into the socket. Do not force it. If it does not seat easily, re-check alignment.
5. **Secure the Processor:** Once the processor is seated, push the metal lever back down to lock the processor into place.
6. **Apply Thermal Paste:** Apply a small amount of high-quality thermal paste to the center of the CPU's integrated heat spreader (IHS). Refer to the thermal paste manufacturer's instructions for the correct application method.
7. **Install CPU Cooler:** Mount the CPU cooler according to its manufacturer's instructions. Ensure it makes firm, even contact with the processor's IHS. Connect the CPU cooler fan cable to the designated header on the motherboard.

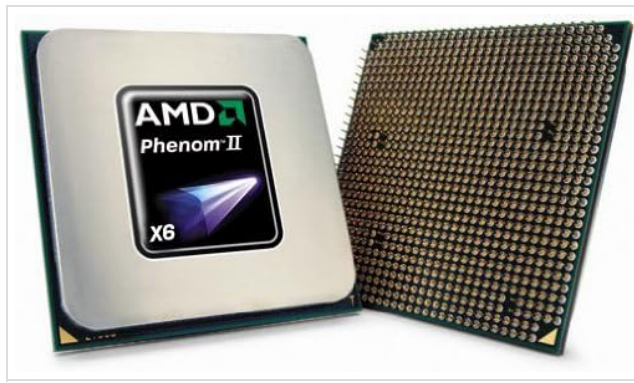


Image: A close-up view of the AMD Phenom II X6 processor, showing the top with the AMD logo and the underside with the pin grid array (PGA) for socket AM3.

4. OPERATING GUIDELINES

The AMD Phenom II X6 1090T processor is designed for efficient and powerful operation.

Turbo Core Technology

This processor features Turbo Core technology, which dynamically adjusts the clock speed of active cores based on workload. When three or fewer cores are heavily utilized, the processor can automatically increase their frequency by up to 500 MHz, enhancing performance for less multi-threaded applications.

Overclocking (Black Edition Feature)

As a Black Edition processor, the Phenom II X6 1090T has an unlocked multiplier, allowing for manual frequency adjustments beyond stock values.

Warning: Overclocking can increase power consumption and heat generation, potentially reducing component lifespan if not managed correctly. It is recommended only for experienced users with adequate cooling solutions. AMD does not guarantee processor operation beyond its published specifications.

Energy Efficiency

The processor incorporates AMD's PowerNow! and Cool'n'Quiet technologies to intelligently regulate energy consumption. This helps reduce heat output, lower noise levels, and extend the processor's lifespan.

5. MAINTENANCE

Minimal maintenance is required for the processor itself. Focus on maintaining optimal system conditions.

- **Cooling System:** Regularly inspect and clean your CPU cooler's fan and heatsink to prevent dust buildup, which can impede airflow and cooling efficiency.
- **Thermal Paste:** While not frequently required, if you remove your CPU cooler, you must clean off old thermal paste and apply new thermal paste before re-installing the cooler.
- **System Airflow:** Ensure good airflow within your computer case by keeping cables tidy and case fans clean.

6. TROUBLESHOOTING

If you encounter issues, consider the following common troubleshooting steps.

- **No Display/System Not Booting:**

- Verify all power connections to the motherboard and components.
- Ensure the CPU is correctly seated in its socket and the CPU cooler is properly installed.
- Check RAM modules for proper seating.
- Reset CMOS settings on the motherboard.

- **System Instability/Crashes:**

- Monitor CPU temperatures using system monitoring software. Overheating can cause instability.
- If overclocked, revert to default settings to rule out overclocking as the cause.
- Ensure your power supply unit (PSU) provides sufficient and stable power.

- **Poor Performance:**

- Check CPU utilization in your operating system's task manager. High utilization by background processes can impact performance.
- Ensure your operating system and drivers are up to date.
- Verify that the CPU cooler is functioning correctly and not throttling the CPU due to heat.

7. SPECIFICATIONS

Property	Value
CPU Model	Phenom II X6 1090T
Manufacturer	AMD
Cores	6
Base Clock Speed	3.2 GHz
Turbo Core Frequency	Up to 3.6 GHz
CPU Socket	AM3
L3 Cache	6 MB
Thermal Design Power (TDP)	125 W
Model Number	HDT90ZFBGRBOX
Product Dimensions	3 x 5 x 4.5 inches
Item Weight	1.05 pounds

8. WARRANTY INFORMATION

The AMD Phenom II X6 1090T Six-Core Processor is covered by a three-year limited warranty from the date of purchase. This warranty covers defects in materials and workmanship under normal use. For

warranty claims or detailed terms and conditions, please refer to the official AMD website or contact AMD customer support.

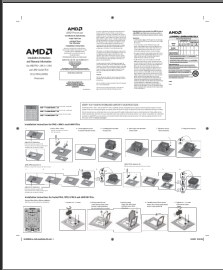
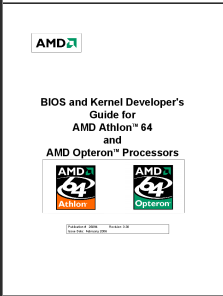
9. SUPPORT

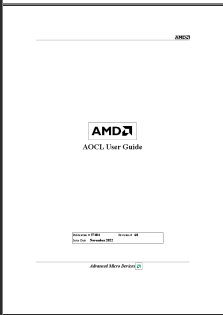
For further assistance, technical support, or driver downloads, please visit the official AMD support website.

- [AMD Support Website](#)
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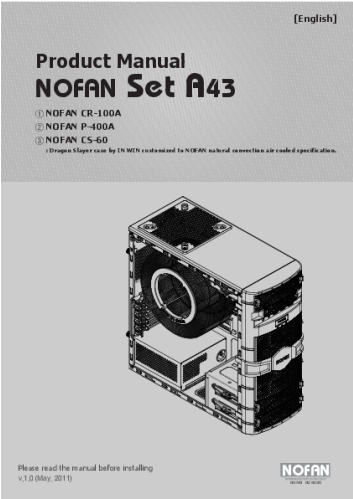
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Related Documents - 1090T

	AMD 770 & SB710 Motherboard User's Manual for AM2/AM2+/AM3 Processors Comprehensive user's manual for AMD 770 and SB710 chipset based motherboards. Covers installation, BIOS setup, driver installation, and specifications for AMD AM2, AM2+, and AM3 processors.
	AMD Processor Installation Guide and Limited Warranty Information This document provides installation instructions and detailed warranty information for AMD processors, including models for FM2+, AM3+, AM4, SocketTR4, SP3, sTRX4, and sWRX8 sockets. It covers essential pre-installation checks, step-by-step installation procedures, warranty terms, limitations, exclusions, and how to obtain service.
	AMD Ryzen 5 5600X Processor: User Manual and Installation Guide Comprehensive user manual and installation guide for the AMD Ryzen 5 5600X processor, covering product specifications, compatible motherboards, installation steps, optimization tips, and troubleshooting.
	AMD Athlon 64 & Opteron Processors: BIOS and Kernel Developer's Guide Comprehensive guide for BIOS and kernel developers on AMD Athlon 64 and AMD Opteron processors, detailing system configuration, initialization, HyperTransport technology, and advanced features for optimal performance.

	AMD Ryzen 5 7500F Processor: Technical Specifications and Installation Guide Detailed technical specifications, compatibility information, and installation guide for the AMD Ryzen 5 7500F processor, including performance expectations and warranty details.
	AMD AOCL User Guide: Optimize Performance on Zen Processors The AMD Optimizing CPU Libraries (AOCL) User Guide provides comprehensive instructions for installing, using, and tuning a suite of high-performance numerical libraries optimized for AMD 'Zen'-based processors. It covers AOCL-BLIS, AOCL-libFLAME, AOCL-FFTW, AOCL-LibM, AOCL-ScaLAPACK, AOCL-RNG, AOCL-SecureRNG, AOCL-Sparse, AOCL-LibMem, AOCL-Cryptography, and AOCL-Compression, along with integration with HPL and MUMPS, and performance tuning guidelines.

Documents - AMD – 1090T

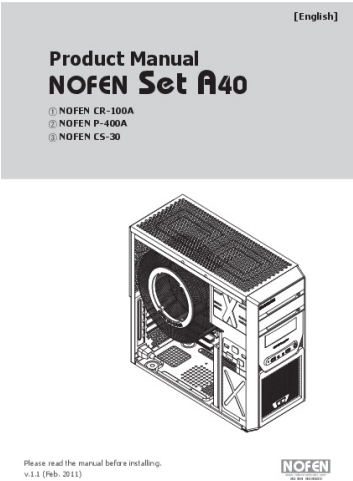


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AMD Phenom II X6 1090T specifications

Core information	
Type	Desktop processor
Market segment	Desktop
Family	Phenom II
Model number	1090T
CPU part number	AMD Phenom II X6 1090T processor
Stepping codes	100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

[pdf] Specifications

AMD PHENOM II X6 1090T BLACK EDITION elektronijk pl elementy czynne IC
 AMD Phenom II X6 **1090T** specifications General information Type Market segment
 Family Model number CPU part numbers Stepping codes Frequency Maximum turbo
 frequency Bus speed Clock multiplier Package Socket Weight Fan/heatsink
 Introduction date Price at introduction Architecture / Microarchi...
 lang:en score:29 filesize: 94.85 K page_count: 2 document date: 2018-10-15

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 940 X4 805 X4 910 X4 945 X4 955 X4 965 X6 1055T X6 **1090T** IntelR CPU AMD
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OWNER S MANUAL End-Suction Solids-Handling Pumps 4BSD, 5BSD, 6BSD, and
8BSD 6192 0310 293 WRIGHT S ... 00 240 240 240 240 Table 3: Falk Coupling
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Socket AM3 AMD 990FX GA990FXAUD3 rev.1.1 N/A = Not support Socket AM3
Motherboard Model GA ... E0 125W 4000 F1 1100T Phenom AMD II X6 3200MHz
512KBx6 6MB Thuban 45nm E0 125W 4000 F1 **1090T** Phenom AMD II X6 3000MHz
512KBx6 6MB Thuban 45nm E0 125W 4000 F1 1075T Phenom AMD II ...
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1994	10	1994	10	1994	10	1994	10
1994	11	1994	11	1994	11	1994	11
1994	12	1994	12	1994	12	1994	12

Table with 10 columns: CPU Model, Frequency, L3 Cache, L2 Cache, Core Name, Process, Shipping, Website, Model, and Price. It lists various AMD processors and their specifications.

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AMD PhenomTM II X6 AMD Phenom ... 4 AM3 AMD AthlonTM II X4 AM3 AMD

AthlonTM II X4 AM3 AMD AthlonTM II X4 Processor Model 1100T **1090T** 1075T

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GA-M61VME-S2 (rev. 1.0) rev. 2.0. CPU Support table listing various AMD processors and their specifications.

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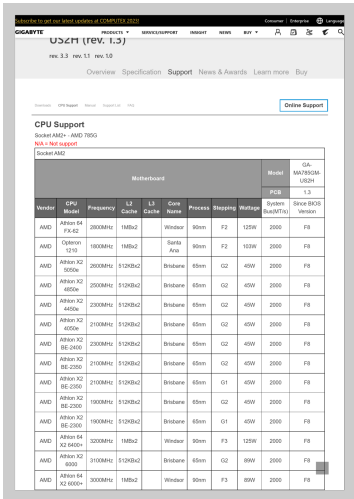


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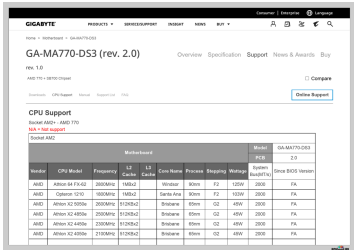
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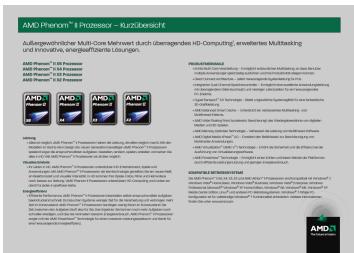
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GIGABYTE GA-MA770-DS3 Motherboard CPU Support List

Comprehensive CPU compatibility list for the GIGABYTE GA-MA770-DS3 motherboard, detailing supported AMD processors with their specifications for Socket AM2+, AM2, and AM3.

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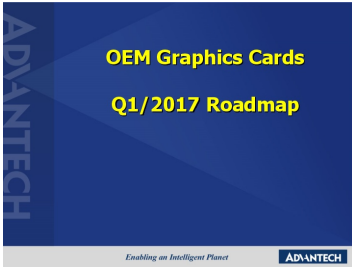
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