

VisionTek 900707

VisionTek 32GB DDR3 SODIMM Memory Kit User Manual

Model: 900707

INTRODUCTION

This manual provides comprehensive instructions for the installation, use, and maintenance of your VisionTek 32GB (4x8GB) PC3-12800 DDR3 1600MHz 204-Pin SODIMM Memory Kit. This memory kit is designed to enhance the performance of compatible iMac models by providing a significant upgrade to system memory.

The VisionTek memory modules are engineered to meet exact Apple specifications and JEDEC standards, ensuring reliable and efficient operation. Upgrading your system's RAM can lead to faster application launches, smoother multitasking, and improved overall system responsiveness.

PRODUCT OVERVIEW



Figure 1: Four VisionTek 8GB DDR3 SODIMM memory modules. Each module features multiple black memory chips on a blue circuit board, with a white label indicating "VTK 8G NB3 12800 CL11 LV 1600 SODIM" and a unique serial number.



Figure 2: The VisionTek 32GB (4x8GB) memory kit packaged in a clear plastic blister pack, showcasing the four SODIMM modules. The VisionTek logo is prominently displayed on the packaging.

The VisionTek 32GB memory kit consists of four 8GB DDR3 SODIMM modules, designed for easy installation into compatible iMac systems. These modules operate at 1600MHz with a low voltage of 1.35 Volts, contributing to energy efficiency and reduced heat output.

COMPATIBILITY

This memory kit is compatible with specific iMac models. Please verify your iMac's model and year before installation to ensure compatibility and optimal performance.

- **2011-2013 iMac models:**

- Memory speed will be limited to 1333MHz in 2011 iMac models.
- Only 27-inch 2012-2013 iMac models can accept 32GB of RAM.
- 2012-2013 21.5-inch iMacs only have two memory slots, thus cannot utilize the full 32GB kit (which is 4x8GB).

For detailed compatibility information, refer to your iMac's official documentation or Apple's support resources.

SETUP AND INSTALLATION

Installing RAM is a straightforward process, but it requires careful handling to avoid damage to the modules or your computer. Always refer to your iMac's specific service manual for detailed, model-specific instructions on how to access and replace memory modules. The following steps are general guidelines.

Before You Begin:

- **Safety First:** Always unplug your iMac from the power outlet and disconnect all cables before opening the computer.
- **Static Electricity:** Static discharge can damage electronic components. Work on a clean, flat, static-free surface. Consider using an anti-static wrist strap.
- **Tools:** You may need a Phillips head screwdriver or other specific tools depending on your iMac model to open the memory access panel.
- **Documentation:** Have your iMac's user manual or service guide readily available for precise instructions on accessing the memory slots.

General Installation Steps:

1. **Power Down:** Shut down your iMac completely and unplug all cables.
2. **Access Memory Slots:** Carefully follow your iMac's manual to locate and open the memory access panel. This often involves removing the display or a small access door on the back.
3. **Remove Old Modules (if applicable):** If you are replacing existing memory, gently push the ejector clips on either side of the module outwards to release it. Pull the module straight out without bending.
4. **Install New Modules:** Hold the VisionTek SODIMM module by its edges, aligning the notch on the module with the key in the memory slot. Insert the module firmly into the slot at an angle (usually 20-30 degrees) until it is fully seated.
5. **Secure Module:** Push the module down until the ejector clips snap into place, securing the module horizontally. Ensure both clips are engaged.
6. **Repeat:** Install all four VisionTek modules into the available slots.
7. **Close Panel:** Carefully close and secure the memory access panel according to your iMac's instructions.
8. **Power On:** Reconnect all cables and power on your iMac. The system should automatically detect the new memory.

If your iMac does not start up or recognize the new memory, refer to the Troubleshooting section.

OPERATING AND VERIFICATION

Once the memory modules are installed, your iMac should automatically recognize the increased RAM. You can verify the installation through your macOS system information.

Verifying Memory Installation:

1. Click the **Apple menu** (apple) in the top-left corner of your screen.

2. Select "**About This Mac**".
3. In the overview tab, you should see the total amount of installed memory listed (e.g., "32 GB 1600 MHz DDR3").
4. For more detailed information, click on "**System Report...**" (or "More Info..." then "System Report...").
5. Navigate to the "**Memory**" section under "Hardware". Here, you can see each installed module, its size, type, and speed.

If the displayed memory does not match the installed amount (32GB), or if there are issues, please consult the Troubleshooting section.

MAINTENANCE AND CARE

Memory modules generally require no ongoing maintenance once installed. However, proper handling during installation and ensuring a clean operating environment for your computer can prolong their lifespan.

- **Clean Environment:** Operate your iMac in a clean, dust-free environment to prevent dust buildup inside the chassis, which can affect cooling and component longevity.
- **Temperature Control:** Ensure your iMac has adequate ventilation to prevent overheating, which can degrade electronic components over time.
- **Handling:** When handling memory modules, always hold them by the edges to avoid touching the gold contacts or the chips, as oils and static can cause damage.
- **Storage:** If storing modules, keep them in their original anti-static packaging or in an anti-static bag.

TROUBLESHOOTING

If you encounter issues after installing your VisionTek memory, try the following troubleshooting steps:

- **No Power/No Display:**
 - Ensure all memory modules are fully seated in their slots. Gently press down on each module until the clips snap into place.
 - Try reseating the modules one by one.
 - If you have old memory, reinstall it to confirm the iMac powers on. This helps isolate if the issue is with the new memory or the installation.
- **Incorrect Memory Amount Detected:**
 - Verify that all modules are correctly installed and seated.
 - Check your iMac's compatibility. Some models may not support the full 32GB or may have fewer slots than modules provided.
 - Try installing modules one at a time to identify if a specific module is faulty.
- **System Instability/Crashes:**
 - This could indicate a faulty module or an incompatibility.
 - Run a memory diagnostic tool if available (e.g., Apple Hardware Test/Diagnostics).
 - Ensure your macOS is up to date.
- **Slow Performance (after upgrade):**
 - For 2011 iMac models, the memory speed will be limited to 1333MHz, even if 1600MHz modules are installed. This is normal behavior for those models.
 - Verify that the memory is running at the expected speed in "About This Mac" -> "System Report" -> "Memory".

If these steps do not resolve the issue, please contact VisionTek customer support or consult a qualified technician.

SPECIFICATIONS

Feature	Detail
Brand	VisionTek
Model Number	900707
RAM Capacity	32 GB (4 x 8GB modules)
Memory Type	DDR3 SODIMM
Memory Speed	1600 MHz (PC3-12800)
Voltage	1.35 Volts
Pin Count	204-Pin
Error Correction	Non ECC Unbuffered Memory
Compliance	Fully JEDEC compliant, Matches exact Apple specifications
Item Weight	1.6 ounces
Product Dimensions (LxWxH)	6.6 x 2.12 x 0.04 inches
Country of Origin	China
Serial Numbers (example)	060314401231001, 060314401231002, 060314401231004 (Individual modules will have unique serial numbers)

WARRANTY AND SUPPORT

VisionTek stands behind the quality of its products. This memory kit comes with a Limited Lifetime Warranty.

Limited Lifetime Warranty:

VisionTek provides a limited lifetime warranty for this memory product, ensuring peace of mind. This warranty covers defects in materials and workmanship under normal use. For full details on warranty terms, conditions, and claim procedures, please refer to the official VisionTek website or contact their customer support.

Customer Support:

For technical assistance, warranty claims, or any other inquiries regarding your VisionTek memory kit, please visit the official VisionTek support website or contact their customer service department. Contact information can typically be found on the VisionTek website or product packaging.

You can also visit the [VisionTek Store on Amazon](#) for more product information and support resources.

