

A-Tech ARX738

A-Tech 8GB Kit (2x4GB) DDR4 2666MHz PC4-21300 DIMM Memory Upgrade User Manual

Model: ARX738

1. PRODUCT OVERVIEW

This manual provides essential information for the installation and use of your A-Tech 8GB (2x4GB) DDR4 2666MHz PC4-21300 DIMM Non-ECC UDIMM Memory Upgrade Kit. This memory kit is designed to enhance the performance of compatible Dell XPS desktop systems by expanding their RAM capacity.

Key Features:

- 8 GB Kit (2 x 4 GB Modules)
- DDR4 2666 MHz (PC4-21300 / PC4-2666)
- DDR4 DIMM (288-Pin)
- Non-ECC Unbuffered
- 1.2V Standard Voltage
- Designed for Dell XPS T8900, T8910, T8920, T8930 desktop systems.

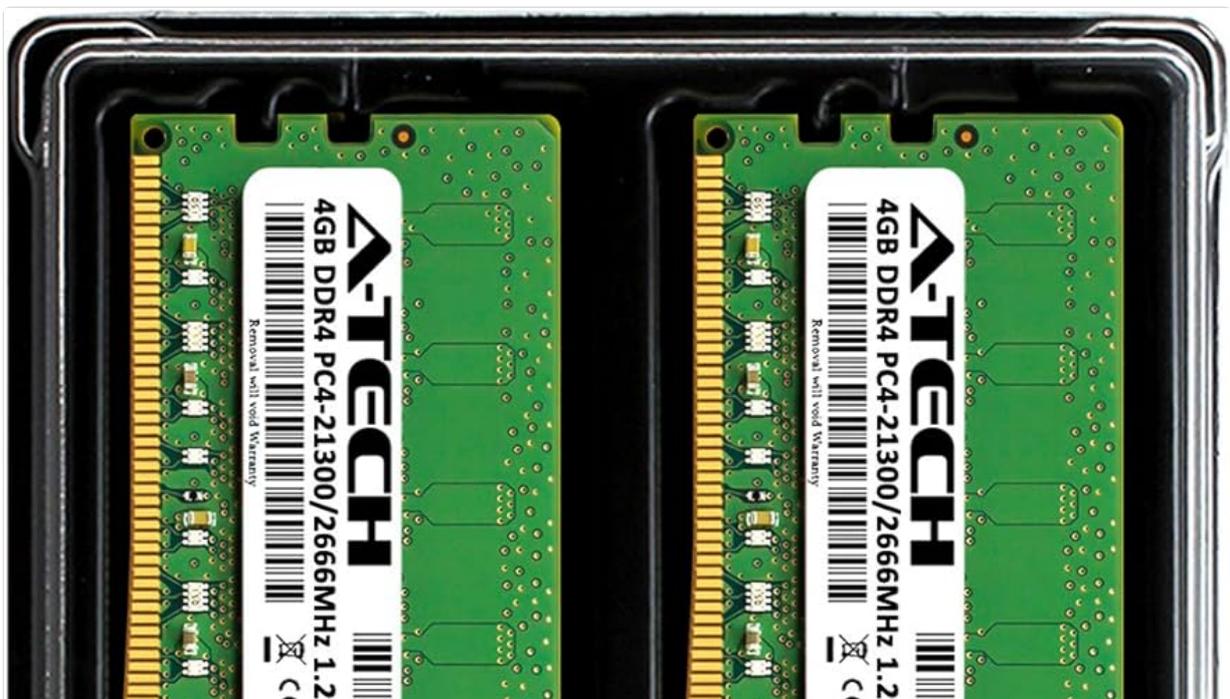




Figure 1: A-Tech 8GB (2x4GB) DDR4 Desktop Memory Kit in its retail packaging, showing two 4GB modules.

2. COMPATIBILITY

This A-Tech memory kit is specifically designed and tested for compatibility with the following Dell XPS desktop models:

- Dell XPS T8900
- Dell XPS T8910
- Dell XPS T8920
- Dell XPS T8930

It is crucial to verify your system's compatibility and maximum supported memory capacity before installation. This memory is for **desktop computers only** and is not compatible with laptop computers.



Figure 2: Visual representation of desktop computer setups, emphasizing the memory's compatibility with desktop PCs, gaming rigs, and workstations.

3. INSTALLATION GUIDE (SETUP)

Installing RAM is a straightforward process, but requires careful handling to prevent damage to the modules or your system. Always refer to your computer's specific service manual for detailed instructions on opening the case and locating memory slots.

3.1 Safety Precautions

- **Disconnect Power:** Always unplug your computer from the power outlet before opening the case.
- **Ground Yourself:** To prevent electrostatic discharge (ESD), which can damage electronic components, touch a metal part of your computer chassis before handling the memory modules. Consider using an anti-static wrist strap.
- **Handle with Care:** Hold memory modules by their edges, avoiding contact with the gold connectors or the chips.

3.2 Step-by-Step Installation

1. **Prepare Your System:** Shut down your computer completely and disconnect all cables (power,

monitor, peripherals).

2. **Open the Case:** Remove the side panel of your computer case to access the motherboard. Consult your system's manual for specific instructions.
3. **Locate Memory Slots:** Identify the DIMM slots on your motherboard. These are typically long slots with clips on either end. Your Dell XPS system may have multiple slots.
4. **Remove Existing Modules (if applicable):** If you are replacing existing RAM, gently push down the clips on both ends of the slot. The module will pop up slightly, allowing you to carefully pull it out.
5. **Install New Modules:** Align the notch on the A-Tech DDR4 module with the key in the DIMM slot. Gently but firmly push the module straight down into the slot until the clips on both sides snap into place. You should hear a click. Do not force the module.
6. **Verify Seating:** Ensure both clips are fully engaged and the module is seated evenly in the slot.
7. **Close the Case:** Reattach the side panel of your computer case.
8. **Reconnect and Power On:** Reconnect all cables and power on your computer. The system should automatically detect the new memory.



Figure 3: A pair of A-Tech 4GB DDR4 memory modules, showing the gold contacts and the notch for proper slot alignment.

For additional installation guidance and resources, you may visit the A-Tech QR support page:
atechmemory.com/pages/qr

4. PERFORMANCE BENEFITS (OPERATING)

Upgrading your system's memory (RAM) capacity with A-Tech modules can significantly improve overall computer performance. More RAM allows your system to:

- **Multitask with Ease:** Run more applications simultaneously without slowdowns.
- **Improve Responsiveness:** Experience faster application loading and smoother transitions.
- **Enhance Data Processing:** Reduce bottlenecks and speed up data handling for demanding tasks like video editing, graphic design, or large spreadsheets.
- **Increase Stability:** Contribute to a more stable computing experience by providing ample memory resources.



MULTITASK WITH EASE

Expand your system's memory (RAM) capacity allowing you to take on more at once

Figure 4: A user efficiently managing multiple applications across dual monitors, demonstrating the benefit of increased RAM for multitasking.

5. CARE AND MAINTENANCE

Memory modules are generally maintenance-free. However, following these general guidelines can help ensure their longevity and your system's stability:

- **Keep System Clean:** Regularly clean the interior of your computer case to prevent dust buildup, which can lead to overheating and component degradation. Use compressed air for this purpose.
- **Proper Ventilation:** Ensure your computer has adequate airflow to prevent excessive heat, which can negatively impact memory performance and lifespan.
- **Avoid Physical Stress:** Do not bend or apply excessive force to the memory modules.
- **Store Properly:** If modules are removed, store them in anti-static bags or their original packaging to protect them from ESD and physical damage.

6. TROUBLESHOOTING

If you encounter issues after installing your A-Tech memory, consider the following common

troubleshooting steps:

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

- Ensure the memory modules are fully seated in their slots. Re-seat them firmly.
- Check that the modules are installed in the correct slots according to your motherboard's manual (e.g., specific channels for dual-channel operation).
- Try installing only one module at a time to identify if a specific module is faulty.
- Clear the CMOS (BIOS settings) of your motherboard. Refer to your system's manual for instructions.

- **Incorrect Memory Amount Detected:**

- Verify that the modules are correctly seated.
- Check your system's BIOS/UEFI settings to ensure the memory is recognized.
- Ensure your operating system is 64-bit to utilize more than 4GB of RAM.

- **System Instability / Blue Screens (BSOD):**

- Run a memory diagnostic tool (e.g., Windows Memory Diagnostic or MemTest86) to check for errors.
- Ensure your system's BIOS is up to date.

If issues persist, contact A-Tech Technical Support for further assistance.

7. SPECIFICATIONS

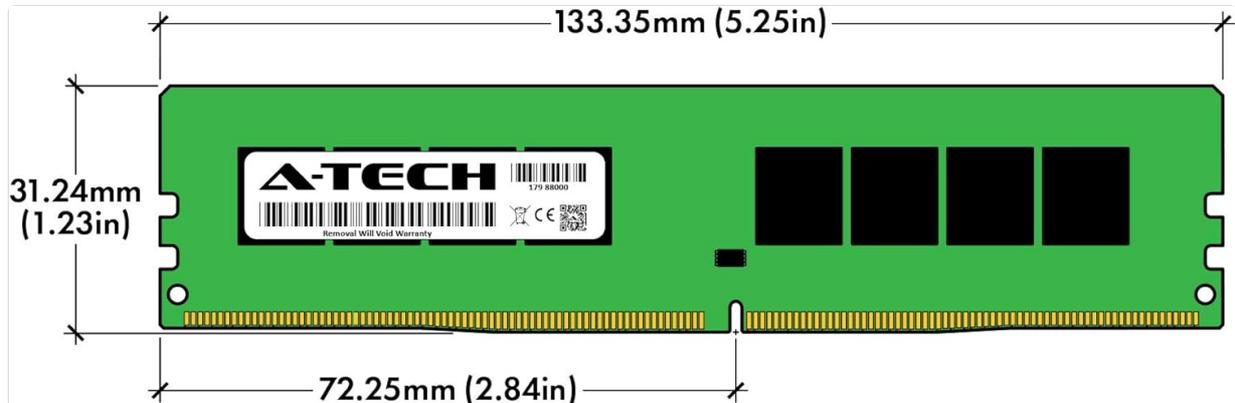


Figure 5: Detailed dimensions of a single A-Tech DDR4 DIMM module.

Product Specifications

Feature	Detail
Product Name	A-Tech 8GB Kit (2x4GB) DDR4 2666MHz PC4-21300 DIMM Memory
Model Number	ARX738
Memory Capacity	8 GB (2 x 4 GB Modules)
Memory Type	DDR4 DIMM
Speed	2666 MHz (PC4-21300 / PC4-2666)
Pin Count	288-Pin

Feature	Detail
Error Correction	Non-ECC Unbuffered
Voltage	1.2 Volts
Dimensions (LxWxH)	5.25 x 1.18 x 0.15 inches (133.35 x 30 x 3.8 mm)
Compatible Devices	Dell XPS T8900, T8910, T8920, T8930
Country of Origin	USA

8. WARRANTY AND SUPPORT

A-Tech memory modules are manufactured with stringent quality control and undergo extensive testing to ensure dependable and reliable performance.

- **Limited Lifetime Warranty:** This product is backed by A-Tech's Limited Lifetime Warranty. Please refer to the official A-Tech website for full warranty terms and conditions.
- **Technical Support:** A knowledgeable A-Tech Tech Team is available to provide support before and after your purchase. For technical assistance, please visit the A-Tech website or contact their customer service.

For more information, visit the [A-Tech Store on Amazon](#).