

## Intel SR3B9

# Intel Gold 6130 Processor User Manual

Model: SR3B9

## 1. PRODUCT OVERVIEW

This manual provides essential information for the installation, operation, and maintenance of the Intel Gold 6130 Processor (Model SR3B9). This high-performance processor features 16 cores, a base clock speed of 2.1 GHz, and is designed for the LGA 3647 socket, making it suitable for demanding server and workstation applications.



**Figure 1:** Intel Gold 6130 Processor. The image displays two views of the processor: one showing the integrated heat spreader (IHS) with the Intel logo, and the other showing the pin grid array (PGA) or land grid array (LGA) contact points on the underside.

## 2. SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance and longevity of your processor. Always handle the processor by its edges to avoid touching the contacts or the integrated heat spreader (IHS).

### 2.1. Pre-Installation Checklist

- Compatible motherboard with LGA 3647 socket.
- Appropriate CPU cooler (heatsink and fan) for 125W TDP.
- Thermal paste.
- Anti-static wrist strap or mat.

- Screwdriver set.

## 2.2. Installation Steps

1. **Prepare the Motherboard:** Ensure the motherboard is installed in the case and all necessary standoffs are in place. Open the CPU socket retention mechanism.
2. **Install the Processor:** Carefully align the processor with the socket, matching the triangular or notched indicators on both the CPU and the socket. Gently lower the processor into the socket without forcing it.
3. **Secure the Processor:** Close the CPU socket retention mechanism to secure the processor in place.
4. **Apply Thermal Paste:** Apply a small amount of thermal paste (pea-sized dot or thin line) to the center of the processor's IHS.
5. **Install CPU Cooler:** Mount the CPU cooler according to its manufacturer's instructions, ensuring even pressure distribution. Connect the CPU fan cable to the designated header on the motherboard.

## 3. OPERATING GUIDELINES

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Once installed, the Intel Gold 6130 processor operates automatically within your system. Key considerations for optimal operation include:

- **BIOS/UEFI Configuration:** Ensure your motherboard's BIOS/UEFI is updated to support the Intel Gold 6130 processor. Verify that CPU settings are configured for optimal performance, including XMP profiles for memory if applicable.
- **Operating System:** Install a compatible 64-bit operating system (e.g., Windows Server, Linux distributions) that can fully utilize the 16 cores and multithreading capabilities.
- **Drivers:** Install the latest chipset drivers for your motherboard from the manufacturer's website.
- **Cooling:** Maintain adequate airflow within your computer case to prevent overheating. Monitor CPU temperatures using system monitoring software.

## 4. MAINTENANCE

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Regular maintenance helps ensure the longevity and stable performance of your processor.

- **Dust Removal:** Periodically clean dust from the CPU cooler heatsink and fan using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **Thermal Paste:** Consider reapplying thermal paste every few years or if you remove the CPU cooler for any reason.
- **Software Updates:** Keep your operating system, drivers, and BIOS/UEFI firmware updated to benefit from performance improvements and security patches.
- **Temperature Monitoring:** Regularly check CPU temperatures, especially under heavy load, to ensure they remain within safe operating limits.

## 5. TROUBLESHOOTING

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If you encounter issues with your Intel Gold 6130 processor, consider the following troubleshooting steps:

- **No Display/Boot Issues:**
  - Verify all power cables (24-pin ATX, 8-pin CPU) are securely connected.

- Reseat the CPU, RAM, and graphics card.
- Check for bent pins on the CPU or in the socket (handle with extreme care).
- Clear CMOS settings on the motherboard.
- **Overheating:**
  - Ensure CPU cooler is properly seated and making good contact with the IHS.
  - Verify thermal paste application.
  - Check CPU fan operation and ensure it's connected to the correct header.
  - Improve case airflow by adding or repositioning fans.
- **System Instability/Crashes:**
  - Run memory diagnostic tests.
  - Check power supply unit (PSU) wattage and stability.
  - Ensure BIOS/UEFI is updated and settings are stable (e.g., no aggressive overlocks).
- **Performance Issues:**
  - Verify CPU utilization in Task Manager/System Monitor.
  - Check for background processes consuming resources.
  - Ensure drivers are up to date.
- For persistent issues, consult your motherboard's manual or contact Intel support.

## 6. SPECIFICATIONS

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Feature	Detail
Processor Model	Intel Gold 6130
Model Number	SR3B9
Cores	16
Base Clock Speed	2.1 GHz
Cache	22 MB
TDP (Thermal Design Power)	125 W
Socket Type	LGA 3647
Product Dimensions	6 x 6 x 3 inches
Item Weight	5 ounces

## 7. WARRANTY AND SUPPORT

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This Intel Gold 6130 Processor is a renewed product. Please refer to the specific return and warranty policy provided by the seller at the time of purchase. Typically, renewed products come with a limited return or replacement period.

For technical support related to Intel processors, please visit the official Intel support website or consult your system integrator.

- **Seller Return Policy:** Check your purchase documentation for details on the 90-day return/replacement policy, if applicable.
- **Intel Support:** [www.intel.com/support/processors](http://www.intel.com/support/processors)

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Documents - Intel – SR3B9



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