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## Kontron E8M

# Kontron Intel CORE2 Duo System User Manual

Model: E8M

## INTRODUCTION

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This manual provides essential information for the installation, operation, and maintenance of your Kontron system, featuring an Intel CORE2 Duo processor, SKT 479 motherboard, 533/667.3LAN, VGA, 4USB, FW, CPU, and Heatsink. Please read this manual thoroughly before proceeding with any setup or operation to ensure proper functionality and longevity of the components.

## PRODUCT OVERVIEW

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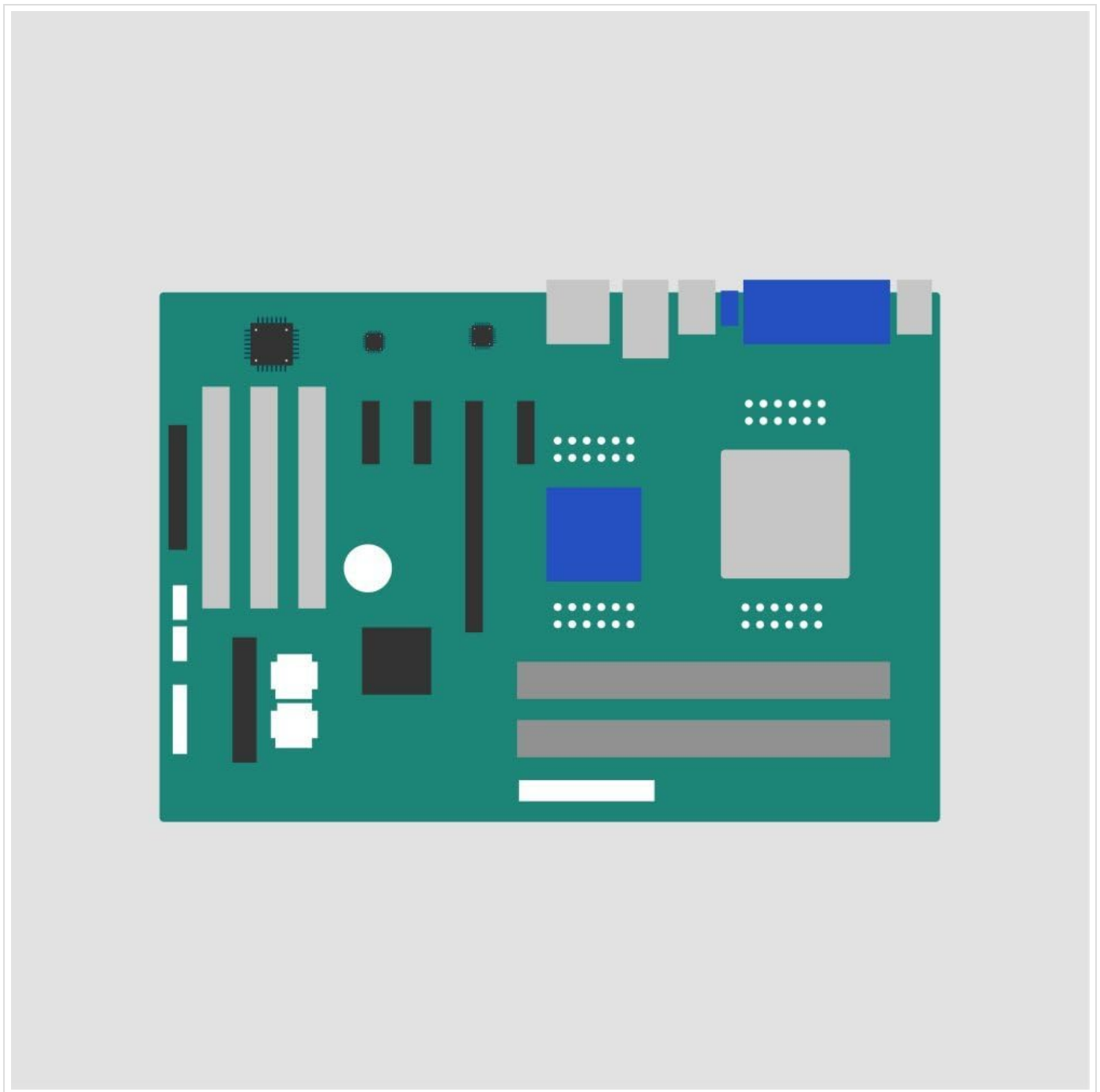


Figure 1: Conceptual diagram of a motherboard, illustrating typical component layout including CPU socket, memory slots, expansion slots, and various input/output ports like VGA and LAN.

The Kontron system is designed for robust performance, integrating key components for a complete computing solution. It includes a motherboard with a Socket 479 for the Intel CORE2 Duo processor, providing support for 533/667 MHz Front Side Bus (FSB) speeds. Connectivity options include three LAN ports, a VGA output for display, four USB ports, and FireWire (FW) for high-speed data transfer. A compatible CPU and heatsink are also part of this package, ensuring efficient thermal management.

## SETUP AND INSTALLATION

Proper installation is crucial for the stability and performance of your system. Always ensure the power is disconnected before handling any internal components.

1. **Prepare the Chassis:** Ensure your computer case is clean and has adequate space and mounting points for the motherboard.
2. **Install the CPU:** Carefully align the Intel CORE2 Duo processor with the Socket 479 on the motherboard. Ensure the

notch on the CPU aligns with the socket. Gently lower the CPU into place without forcing it. Secure the CPU retention lever.

3. **Install the Heatsink:** Apply a thin, even layer of thermal paste to the top of the CPU. Place the heatsink directly onto the CPU, aligning the mounting holes or clips. Secure the heatsink firmly according to its specific mounting mechanism to ensure good contact and heat dissipation.
4. **Mount the Motherboard:** Carefully place the motherboard into the chassis, aligning it with the standoffs. Secure the motherboard with screws, ensuring it is firmly seated but not overtightened.
5. **Connect Power:** Connect the main ATX power connector (20-pin or 24-pin) and the CPU auxiliary power connector (4-pin or 8-pin) from your power supply to the motherboard.
6. **Connect Peripherals:** Connect necessary cables such as SATA for storage drives, front panel connectors (power button, reset button, USB, audio), and any expansion cards (e.g., graphics card if not using integrated VGA).
7. **Initial Boot:** After all connections are secure, connect the display to the VGA port, and power on the system. Observe for POST (Power-On Self-Test) messages and ensure the system boots correctly.

## OPERATING INSTRUCTIONS

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Once the system is set up, follow these general guidelines for operation:

- **Power On/Off:** Use the power button on your chassis to turn the system on. For shutdown, always use the operating system's shutdown function to prevent data corruption.
- **BIOS/UEFI Access:** To access the system's BIOS/UEFI settings, press the designated key (commonly Del, F2, F10, or F12) during the initial boot sequence. Refer to the motherboard's specific documentation for exact key presses and settings.
- **Driver Installation:** Install all necessary drivers for the motherboard chipset, LAN, VGA, USB, and FireWire components. These are typically provided on a driver CD or available for download from the Kontron or Intel website.
- **Network Configuration:** Utilize the three LAN ports for network connectivity. Configure network settings (IP address, DNS) through your operating system.
- **USB and FireWire Devices:** Connect USB and FireWire compatible devices to the respective ports. Ensure proper drivers are installed for these devices if required.

## MAINTENANCE

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Regular maintenance helps extend the lifespan and ensure optimal performance of your system.

- **Dust Removal:** Periodically clean dust from inside the computer case, especially from the heatsink fins and fan blades. Use compressed air or a soft brush. Ensure the system is powered off and unplugged before cleaning.
- **Thermal Paste:** If CPU temperatures rise significantly over time, consider reapplying thermal paste to the CPU and heatsink. This should only be done by experienced users.
- **Cable Management:** Ensure internal cables are neatly routed to allow for proper airflow within the chassis.
- **Software Updates:** Keep your operating system, drivers, and BIOS/UEFI firmware updated to benefit from performance improvements and security patches.

## TROUBLESHOOTING

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If you encounter issues, refer to the following common troubleshooting steps:

- **No Power:**
  - Check if the power supply is connected and switched on.

- Verify all power cables to the motherboard (24-pin and 4/8-pin CPU) are securely seated.
- Ensure the front panel power button cable is correctly connected to the motherboard.
- **No Display:**
  - Ensure the monitor is connected to the VGA port and is powered on.
  - Verify the CPU and RAM are correctly installed.
  - If using a dedicated graphics card, ensure the monitor is connected to it, not the integrated VGA.
- **System Instability/Crashes:**
  - Check CPU and heatsink installation; ensure proper thermal paste application.
  - Verify RAM modules are properly seated in their slots.
  - Ensure adequate ventilation and cooling within the chassis.
- **Network Connectivity Issues:**
  - Check LAN cable connections.
  - Verify LAN drivers are installed and up to date.
  - Check network settings in the operating system.

## SPECIFICATIONS






Feature	Detail
Brand	Kontron
CPU Manufacturer	Intel
Processor Type	CORE2 Duo
Socket Type	SKT 479
Front Side Bus (FSB)	533/667 MHz
LAN Ports	3
Video Output	VGA
USB Ports	4
FireWire (FW)	Yes
Item Weight	3 pounds
ASIN	B07TD6PMKX
UPC	745809723346
Date First Available	August 14, 2015

## WARRANTY AND SUPPORT

For specific warranty information and technical support, please refer to the documentation provided with your purchase or visit the official Kontron website. Keep your proof of purchase for warranty claims.

For further assistance, you may contact Kontron customer support through their official channels.

## Related Documents - E8M

	<p><a href="#">ThinkIO-Duo BIOS Guide - Kontron Configuration Manual</a></p> <p>Explore the Kontron ThinkIO-Duo BIOS Guide for detailed instructions on system setup, advanced configurations, chipset settings, boot order, security features, and more for your industrial DIN Rail PC.</p>
	<p><a href="#">Kontron KTQ77/Flex (KTD-N0848-C) User's Guide: Specifications and Installation</a></p> <p>Comprehensive user's guide for the Kontron KTQ77/Flex embedded motherboard, model KTD-N0848-C, detailing system specifications, installation procedures, BIOS configuration, and connector definitions.</p>
	<p><a href="#">Kontron KTQM87/mITX User's Guide: Installation, Specifications, and Configuration</a></p> <p>Comprehensive user manual for the Kontron KTQM87/mITX embedded motherboard. Details system specifications, installation, BIOS settings, connectors, and technical support from Kontron Technology A/S.</p>
	<p><a href="#">Kontron 3.5"-SBC-TGL User Guide: Specifications and Operation</a></p> <p>This user guide provides comprehensive details on the Kontron 3.5"-SBC-TGL single board computer, covering installation, system specifications, connector definitions, and BIOS configuration for embedded and industrial applications.</p>
	<p><a href="#">Kontron KWS 3000-ADL User Guide Rev. 1.2</a></p> <p>Comprehensive user guide for the Kontron KWS 3000-ADL industrial workstation, detailing features, safety, installation, operation, and technical specifications.</p>



KBox R-101  
1000 MHz / 1 GB  
 200 x 100 x 30 mm

kontron.com



## [Kontron KBox R-101 User Guide: Installation, Operation, and Specifications](#)

Comprehensive user guide for the Kontron KBox R-101 series embedded Box PCs. Covers installation, operation, maintenance, and specifications for railway and industrial applications. Features fanless design, IP54 protection, and extended temperature range.