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LDGSUPH S.T.CS2560P739

LDGSUPH S.T.CS2560P739 4K Wifi Smart Network TV Motherboard User Manual

1. Introduction

This manual provides essential information for the proper handling, installation, operation, and maintenance of the LDGSUPH S.T.CS2560P739 4K Wifi Smart Network TV Motherboard. This component is designed to serve as the central processing unit for compatible 4K Smart Network Televisions, enabling advanced features such as high-resolution display, wireless connectivity, and smart TV functionalities.

2. Safety Information

Please read and understand all safety instructions before handling or installing the motherboard. Failure to follow these instructions may result in electric shock, fire, damage to the product, or personal injury.

- **Professional Installation Recommended:** Installation of this motherboard requires technical expertise and should only be performed by qualified service personnel. Incorrect installation can lead to severe damage to the television and the motherboard itself.
- **Power Disconnection:** Always ensure the television is completely disconnected from the main power supply before attempting any installation, removal, or maintenance procedures.
- **Electrostatic Discharge (ESD) Precautions:** Electronic components are sensitive to static electricity. Use an anti-static wrist strap and work on an anti-static mat to prevent ESD damage. Avoid touching the pins or connectors directly.
- **Handle with Care:** Avoid dropping or subjecting the motherboard to physical shock. Hold the board by its edges.
- **Ventilation:** Ensure adequate ventilation around the television after installation to prevent overheating of components.

3. Product Identification

The model number of this motherboard is **S.T.CS2560P739**. This identifier is typically printed directly on the circuit board. Another important identifier found on the board is **7C8274D5E8DA**, which may be a serial number or a specific component ID.

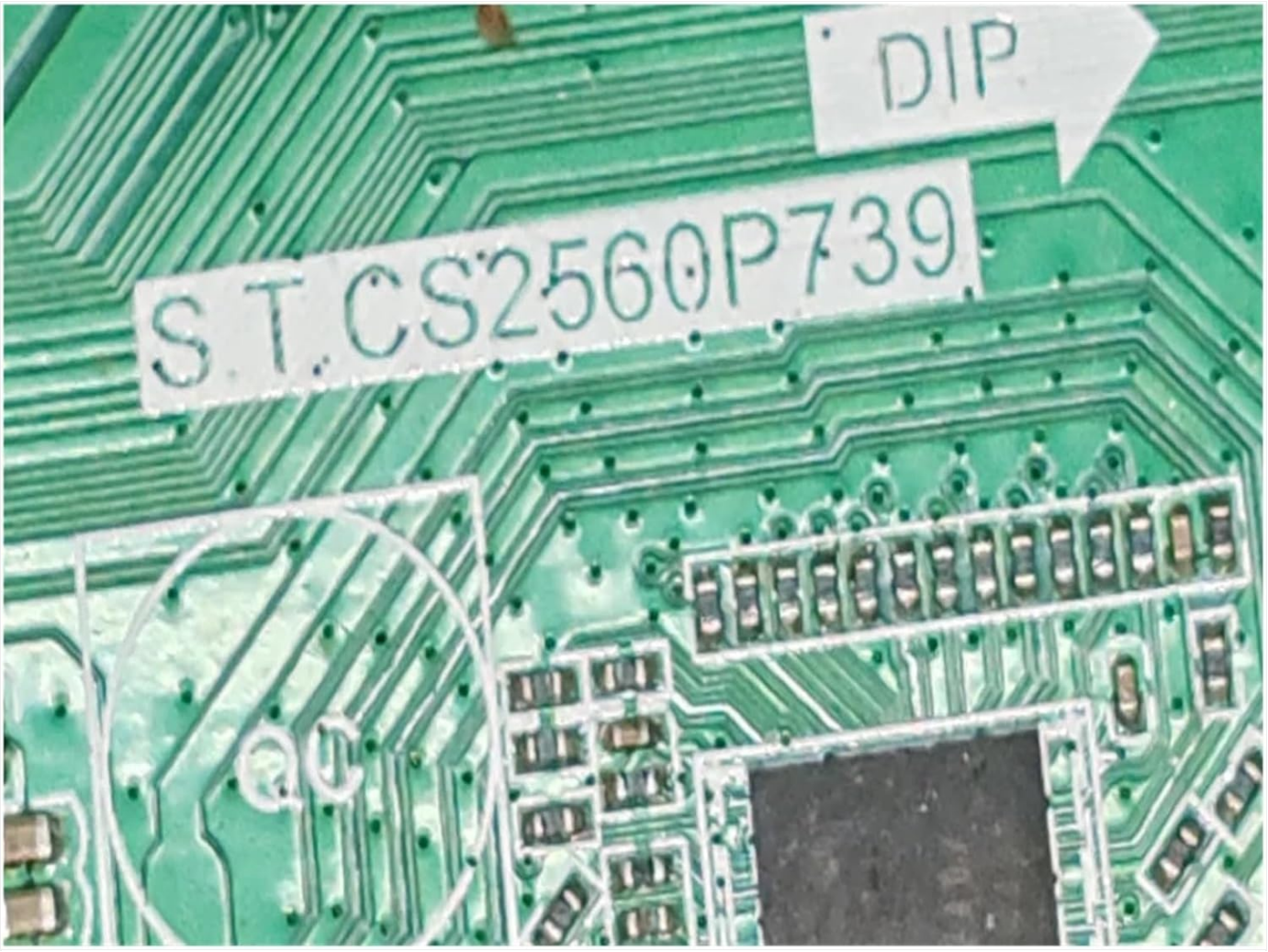


Image 3.1: Close-up of the S.T.CS2560P739 model number on the motherboard.

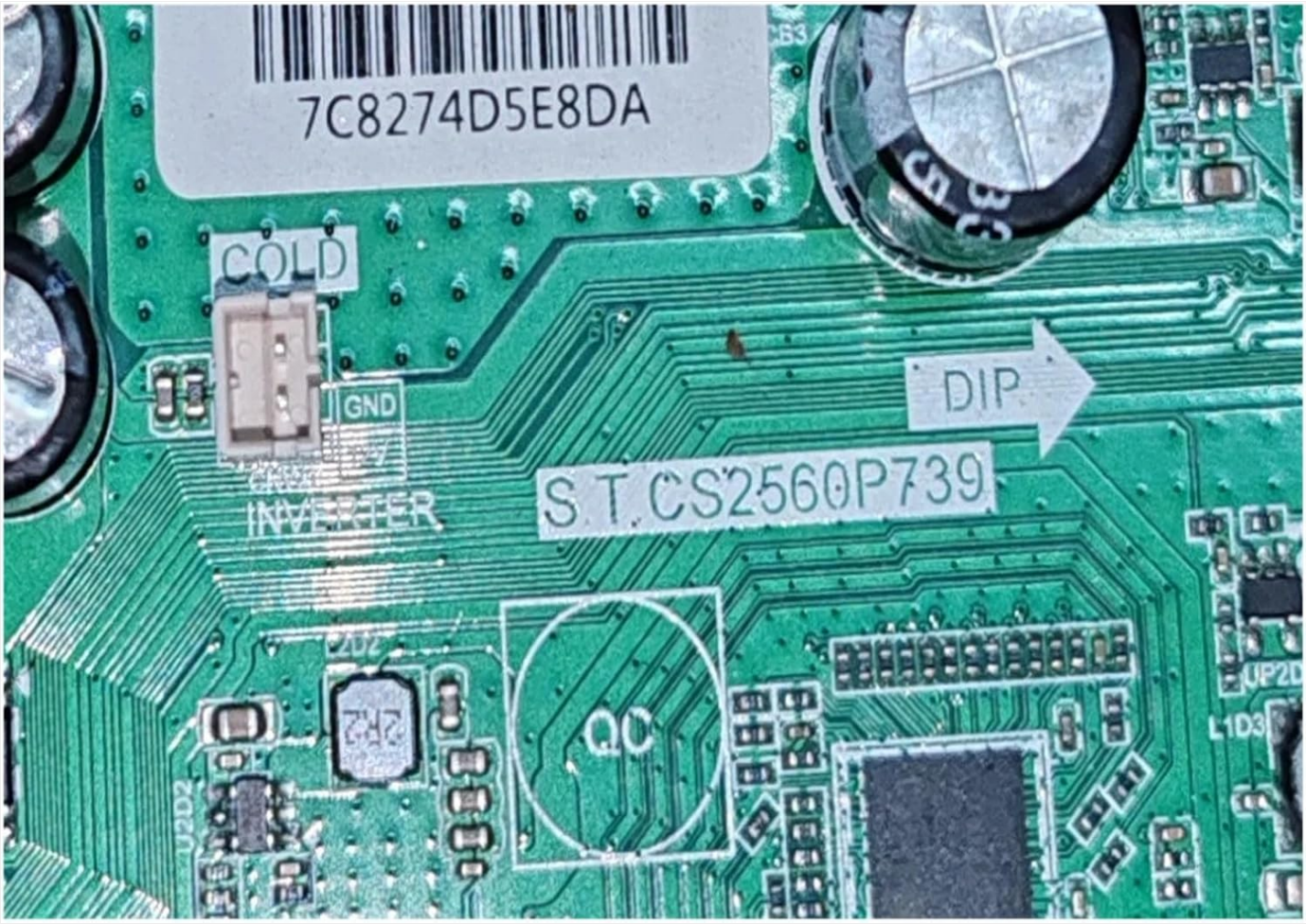


Image 3.2: Detailed view showing the S.T.CS2560P739 model number and the 7C8274D5E8DA identifier.

4. Setup and Installation

This motherboard is a replacement part for specific television models. Ensure compatibility with your TV model before proceeding with installation. Due to the complexity and delicate nature of electronic components, professional installation is strongly advised.

General Installation Guidelines (for qualified technicians):

1. **Preparation:** Disconnect the TV from all power sources. Place the TV face down on a soft, clean surface to protect the screen.
2. **Access:** Carefully remove the TV's back panel to expose the internal components.
3. **Old Motherboard Removal:** Disconnect all cables (power, data, display, etc.) from the existing motherboard. Note the orientation and connection points for reassembly. Unscrew and remove the old motherboard.
4. **New Motherboard Installation:** Carefully place the new S.T.CS2560P739 motherboard into position, ensuring all mounting holes align. Secure it with the appropriate screws.
5. **Cable Connection:** Reconnect all cables to their corresponding ports on the new motherboard. Ensure all connections are firm and correctly oriented.
6. **Testing:** Before reattaching the back panel, temporarily connect the TV to power and perform a basic functional test to ensure the TV powers on and displays an image.
7. **Final Assembly:** Once functionality is confirmed, disconnect power, reattach the TV's back panel, and secure all screws.

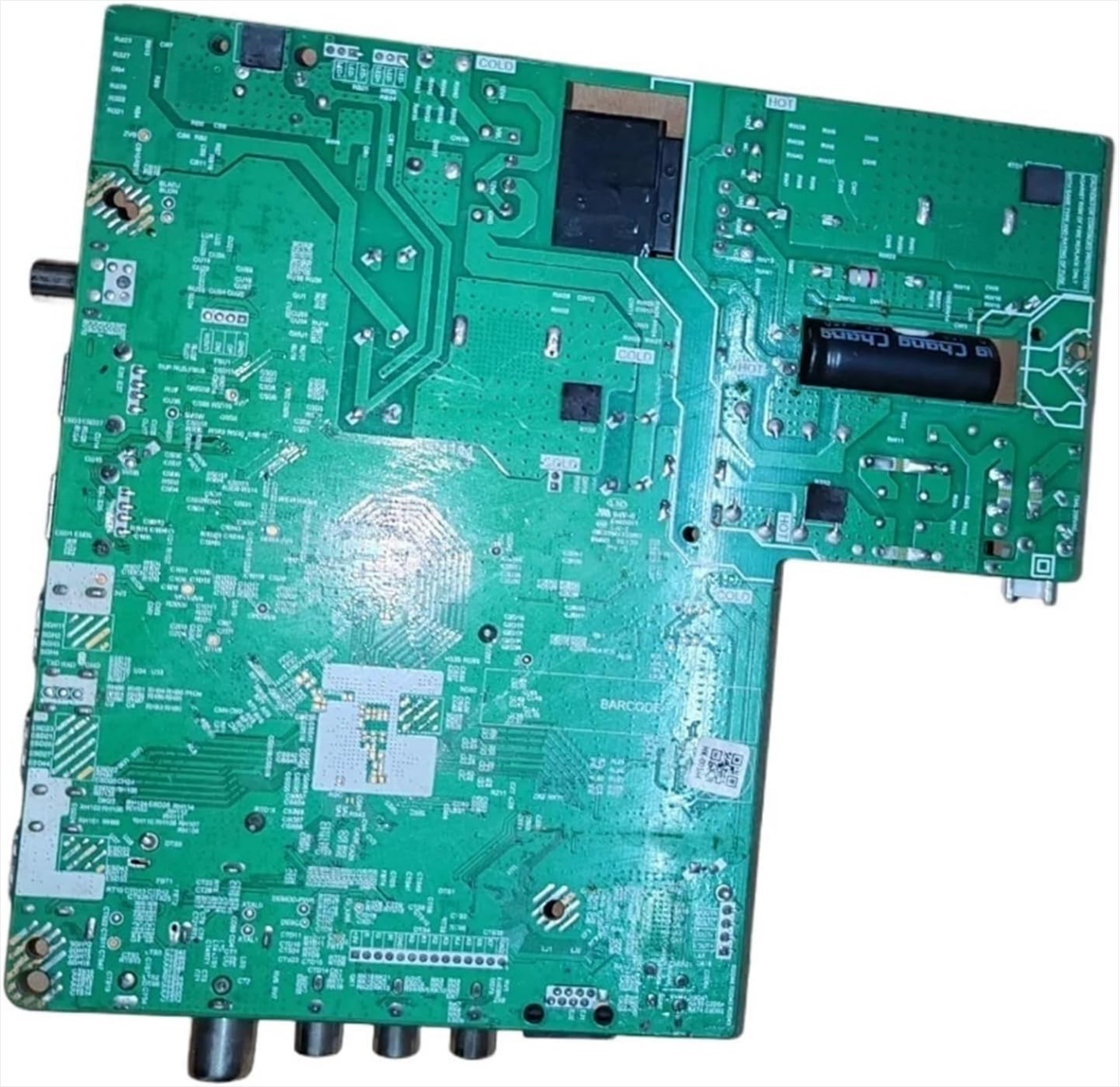


Image 4.1: Overview of the S.T.CS2560P739 Motherboard layout.

5. Operating Principles

The S.T.CS2560P739 motherboard serves as the core intelligence of your 4K Smart Network TV. Once correctly installed and powered, it manages all television functions, including video processing, audio output, network connectivity, and smart application execution.

- **Powerful Performance:** The integrated chip ensures smooth and responsive operation of the smart system, allowing for quick app launches, fluid interface transitions, and efficient video processing.
- **Top-tier Image Quality:** Equipped with an advanced image processing engine, the motherboard enhances dynamic compensation, color, contrast, and supports full-format HDR decoding for a realistic and detailed visual experience.
- **Smooth System Experience:** Through optimized low-level processes and intelligent memory management, the system maintains its performance over time, reducing fragmentation and ensuring long-term stability.
- **Network Connectivity:** Integrated Wi-Fi and network capabilities allow the TV to connect to the internet for streaming services, software updates, and smart home integration.

For specific operational instructions related to your television's user interface, remote control, and smart features, please refer to the user manual provided with your television set.

6. Maintenance and Care

Proper maintenance can extend the lifespan of your television and its components, including the motherboard.

- **Cleaning:** Keep the television's ventilation openings clear of dust and debris. Use a soft, dry cloth to gently clean the exterior of the TV. Never use liquid cleaners directly on the motherboard or inside the TV chassis.
- **Ventilation:** Ensure the TV is placed in a location with adequate airflow to prevent overheating. Avoid blocking vents.
- **Environmental Conditions:** Operate the TV within recommended temperature and humidity ranges. Avoid extreme conditions.
- **Power Surges:** Consider using a surge protector to safeguard the TV and its internal components from electrical fluctuations.

7. Troubleshooting

If you encounter issues after installing the S.T.CS2560P739 motherboard, consider the following basic troubleshooting steps. For complex issues, professional assistance is recommended.

Common Issues and Solutions:

- **No Power:**
  - Verify the power cable is securely connected to both the TV and the power outlet.
  - Check if the power outlet is functional by plugging in another device.
  - Ensure all internal power connections to the motherboard are secure.
- **No Display/Black Screen:**
  - Confirm all display cables (e.g., LVDS cable) are correctly and firmly connected between the motherboard and the display panel.
  - Ensure the TV is set to the correct input source.
- **No Wi-Fi/Network Connectivity:**
  - Check your router and internet connection.
  - Ensure the Wi-Fi antenna (if external) is properly connected to the motherboard.
  - Verify network settings in the TV's menu.
- **Smart Features Not Working:**
  - Ensure the TV has a stable internet connection.
  - Try restarting the TV by unplugging it for a few minutes and then plugging it back in.
  - Check for available software updates for your TV.

If these steps do not resolve the issue, it is recommended to contact a qualified technician or the product support for further assistance.

8. Specifications

The LDGSUPH S.T.CS2560P739 motherboard is engineered with the following key features and specifications:

- **Model Number:** S.T.CS2560P739
- **Display Compatibility:** Designed for 4K resolution displays.
- **Connectivity:** Integrated Wi-Fi for smart network capabilities.
- **Performance:** Powerful performance chip for smooth, lag-free operation.
- **Image Processing:** Top-tier image quality engine with dynamic compensation, color enhancement, contrast improvement, super-resolution scaling, and full-format HDR decoding.
- **System Optimization:** Chip-level low-level optimization and intelligent memory management for a lasting smooth system experience.
- **Durability:** High-quality craftsmanship, military-grade solid capacitors, and high-quality PCB materials for enhanced stability and reliability.
- **Cooling:** Efficient heatsinks or heat spreader solutions for sustained high performance.
- **Item Weight:** Approximately 1.76 ounces (50 grams).
- **Package Dimensions:** Approximately 0.39 x 0.39 x 0.39 inches (1 x 1 x 1 cm).

9. Warranty and Support

This LDGSUPH S.T.CS2560P739 motherboard is covered by a manufacturer's warranty against defects in materials and workmanship. The specific terms and duration of the warranty may vary. Please retain your proof of purchase for warranty claims.
For technical support, warranty inquiries, or service, please contact your retailer or the manufacturer directly. Contact information can typically be found on the product packaging or the manufacturer's official website.
Note: Unauthorized repair or modification of the motherboard may void the warranty.

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