Instruction Manual

Power Supply and Main Board RSAG7.820.10462/ROH

PRODUCT OVERVIEW

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of the RSAG7.820.10462/ROH Power Supply and Main Board, compatible with HISENSE 58R6E3 (S/N: 58G21) televisions. This part has been tested to ensure functionality.
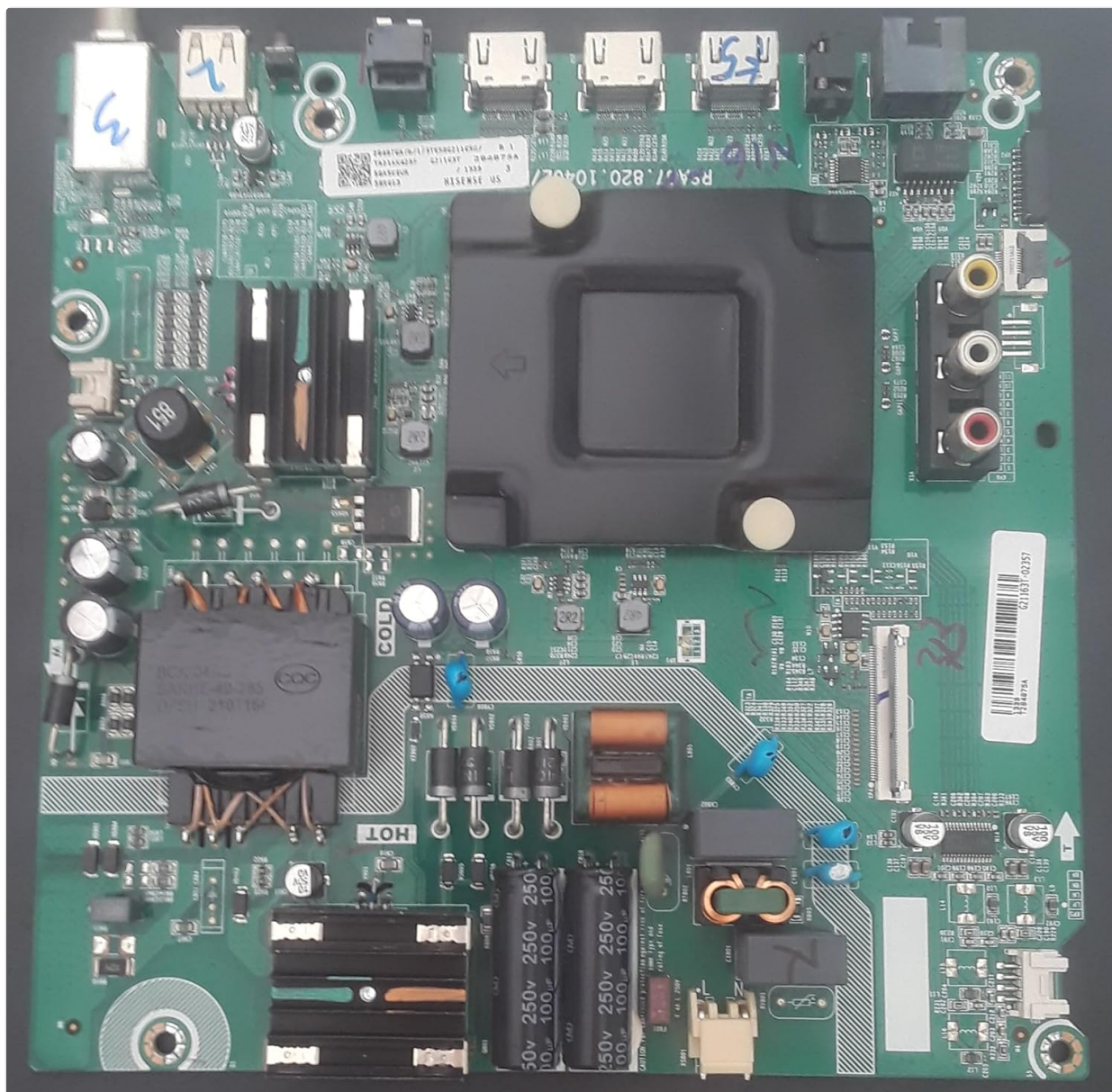

Image: The RSAG7.820.10462/ROH Power Supply and Main Board. This image displays the full circuit board, highlighting various components such as USB ports, HDMI ports, audio/video input jacks, power supply capacitors, heat sinks, and the

main processor area covered by a black heat spreader. The board is green with various electronic components soldered onto it, including resistors, capacitors, and integrated circuits. Markings like "COLD" and "HOT" indicate different sections of the power supply. A barcode and serial number are visible on the right side of the board.

SAFETY INFORMATION

Always disconnect the television from the power source before attempting any installation or maintenance. Static electricity can damage electronic components; use anti-static precautions (e.g., anti-static wrist strap) when handling the board. If you are unsure about any step, consult a qualified technician.

SETUP AND INSTALLATION

This section outlines the steps for replacing or installing the main board.

1. **Preparation:**

   - Ensure the television is unplugged from the wall outlet.
   - Place the television face down on a soft, clean surface to prevent screen damage.
   - Gather necessary tools: Phillips head screwdriver, anti-static wrist strap.

2. **Accessing the Main Board:**

   - Remove the back cover of the television by unscrewing all retaining screws.
   - Carefully lift and set aside the back cover.

3. **Disconnecting the Old Board (if applicable):**

   - Identify all cables connected to the existing main board (e.g., power cables, ribbon cables, speaker cables, input/output cables).
   - Gently disconnect each cable. Note their positions for reassembly.
   - Unscrew the main board from the television chassis.
   - Carefully remove the old board.

4. **Installing the New Board:**

   - Align the new RSAG7.820.10462/ROH board with the mounting holes in the television chassis.
   - Secure the board with the appropriate screws.
   - Reconnect all cables, ensuring they are firmly seated in their respective ports. Pay close attention to the orientation of ribbon cables.

5. **Final Steps:**

   - Replace the television back cover and secure it with all screws.
   - Carefully return the television to its upright position.
   - Plug the television into a power outlet.

OPERATING INSTRUCTIONS

Once the main board is correctly installed, the television should power on normally. The main board manages all core functions of the television, including video processing, audio output, and input management.

- **Power On:** Press the power button on the television or remote control.
- **Input Selection:** Use the remote control to select the desired input source (HDMI, AV, USB, etc.).

- **Functionality Check:** Verify that all ports (HDMI, USB, AV) and functions (picture, sound) are working as expected.

MAINTENANCE

The RSAG7.820.10462/ROH main board is designed for long-term reliability. Minimal maintenance is required.

- **Cleaning:** Keep the television's ventilation openings clear of dust and debris to ensure proper airflow and prevent overheating. Do not use liquid cleaners directly on the board.
- **Environment:** Operate the television in a well-ventilated area, away from excessive heat, humidity, and direct sunlight.
- **Power Surges:** Consider using a surge protector to safeguard the television and its internal components from electrical fluctuations.

TROUBLESHOOTING

If you encounter issues after installing the main board, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No Power / TV Does Not Turn On	Loose power connection, faulty power supply unit (PSU) section on the board, incorrect installation.	- Check if the power cord is securely plugged into the wall and the TV. - Verify all internal power connections to the main board are secure. - Ensure the power outlet is functional.
No Picture / Black Screen	Loose display ribbon cable, incorrect input selection, backlight issue (not directly main board).	- Ensure the display ribbon cable (LVDS cable) is properly connected to the main board and the display panel. - Confirm the correct input source is selected. - Test with a known working video source.
No Sound	Loose speaker cables, audio settings, faulty audio circuit on the board.	- Check speaker cable connections to the main board. - Verify volume settings and mute status. - Test with different audio sources.
Input Ports Not Working (HDMI, USB, AV)	Loose port connections, damaged port, software issue.	- Ensure cables are fully inserted into the ports. - Test with different cables and devices. - Perform a factory reset of the TV (if accessible via menu).

If these steps do not resolve the issue, professional assistance may be required.

SPECIFICATIONS

Key specifications for the RSAG7.820.10462/ROH Power Supply and Main Board:

- **Model Name:** RSAG7.820.10462
- **Compatible Devices:** Television (specifically HISENSE 58R6E3)
- **Main Power Connector Type:** 24-Pin
- **Graphics Card Interface:** PCI Express (Note: This refers to internal board architecture, not an external slot)
- **Memory Slots Available:** 2 (Internal to the board, not user-accessible)
- **Number of Ports:** 3 (referring to specific types of ports)
- **Total Ethernet Ports:** 1
- **Total HDMI Ports:** 1
- **Total PCI E- Ports:** 1 (Internal to the board)
- **Manufacturer:** ddc
- **ASIN:** B0CPJSVMMQ

WARRANTY AND SUPPORT

This product is covered by a standard manufacturer's warranty against defects in materials and workmanship. For specific warranty terms and duration, please refer to the documentation provided with your purchase or contact the seller directly.

For technical support or assistance with installation and troubleshooting, please contact the seller or manufacturer through the platform where the product was purchased. Provide your product model number (RSAG7.820.10462) and purchase details for faster service.