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LDGSUPH 6870C-0769A V18_43-65UHD_TM120_v1.0

LDGSUPH 6870C-0769A V18_43-65UHD_TM120_v1.0 T-Con Board Instruction Manual

Model: 6870C-0769A V18_43-65UHD_TM120_v1.0
Brand: LDGSUPH

1. Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your LDGSUPH 6870C-0769A V18_43-65UHD_TM120_v1.0 T-Con Board. This T-Con board is designed as a replacement component for LG display equipment, enhancing or restoring your television's performance.

The board supports advanced display technologies including 4K/8K Ultra HD and HDR quality, and features multiple interfaces for expanded connectivity. Please read this manual thoroughly before attempting any installation or repair.

2. Product Overview and Features

The 6870C-0769A V18_43-65UHD_TM120_v1.0 T-Con Board is a critical component for managing the display signals in compatible LG televisions. It offers the following key features:

- **Full-format Audio and Video Decoding:** Supports 4K/8K Ultra HD and HDR quality, compatible with various video and lossless audio formats such as MKV and MP4. Direct playback from USB drives or hard drives is supported without requiring additional external devices.
- **Multiple Interface Expansion:** Equipped with HDMI 2.1 (supporting 4K 120Hz) and USB 3.0 ports for versatile connectivity with gaming consoles, speakers, and other peripherals.
- **Energy Saving:** Features an intelligent sleep mode and utilizes low-power components, resulting in a standby power consumption of less than 0.5W.
- **Image Quality Optimization:** Includes a built-in processing chip designed to adjust contrast, calibrate colors, and reduce motion blur for a superior viewing experience.



Figure 1: LDGSUPH 6870C-0769A T-Con Board. This image displays the overall layout of the T-Con board, highlighting the central processing unit and surrounding circuitry.

3. Safety Information

Before proceeding with any installation or maintenance, please observe the following safety precautions:

- **Disconnect Power:** Always unplug the television from the main power outlet before opening the TV casing or handling any internal components.
- **Professional Installation Recommended:** Installation of internal TV components should ideally be performed by a qualified technician to prevent damage to the TV or personal injury.
- **Static Electricity:** Electronic components are sensitive to static discharge. Use an anti-static wrist strap or frequently touch a grounded metal object before handling the board.
- **Handle with Care:** Avoid touching the delicate components and connectors on the board. Hold the board by its edges.
- **Ventilation:** Ensure the television's ventilation openings are not blocked after reassembly to prevent overheating.

4. Setup and Installation

This section outlines the general steps for replacing a T-Con board. Specific steps may vary depending on your television model. Refer to your TV's service manual for detailed instructions.

1. **Preparation:**
    - Ensure the television is completely powered off and unplugged from the wall outlet.
    - Place the TV face down on a soft, clean surface to protect the screen.
    - Gather necessary tools, including screwdrivers (Phillips, Torx), plastic prying tools, and an anti-static wrist strap.
2. **Accessing the T-Con Board:**
    - Carefully remove the back cover of the television by unscrewing all retaining screws.
    - Locate the existing T-Con board. It is typically situated at the top center of the TV panel, often under a metal shield.
3. **Removing the Old Board:**
    - Disconnect all ribbon cables (LVDS cables) and power cables connected to the old T-Con board. Handle ribbon cables by their tabs or edges to avoid damage.
    - Unscrew the mounting screws securing the old T-Con board to the TV chassis.
    - Carefully lift and remove the old board.
4. **Installing the New Board:**
    - Align the new LDGSUPH 6870C-0769A T-Con Board with the mounting holes.
    - Secure the board with the appropriate screws. Do not overtighten.
    - Carefully reconnect all ribbon cables and power cables. Ensure they are fully seated and locked into their connectors. Double-check all connections.
5. **Reassembly and Testing:**
    - Before replacing the back cover, temporarily plug in the TV and power it on to test the display functionality. If the display is working correctly, power off and unplug the TV again.
    - Replace the back cover of the television and secure all screws.
    - Plug in the TV and resume normal operation.

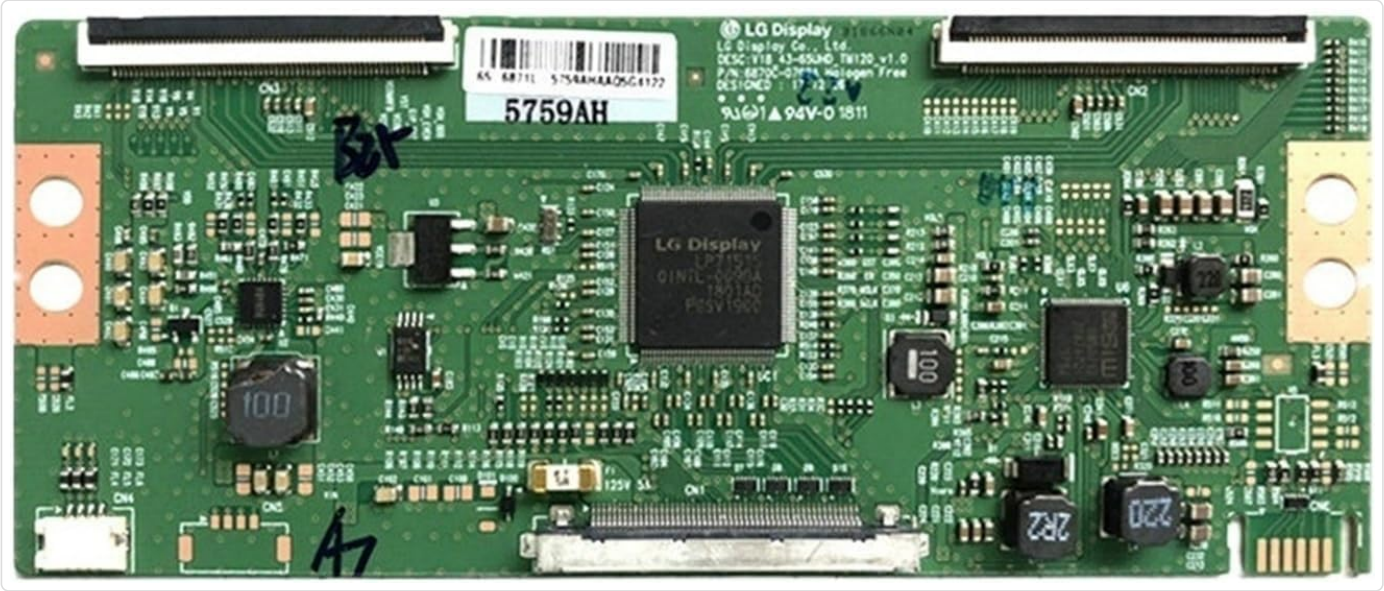


Figure 2: Detailed view of the T-Con Board's connectors. This image highlights the various ports for ribbon cables and power connections, crucial for proper installation.

5. Operating Instructions

Once the LDGSUPH 6870C-0769A T-Con Board is correctly installed, it operates automatically as an integral part of your television's display system. No specific user interaction is required for the T-Con board itself.

The board's advanced features, such as 4K/8K UHD support, HDR quality, and image optimization, will function seamlessly with your television's existing controls and settings. You can utilize the expanded HDMI 2.1 and USB 3.0 interfaces by connecting compatible external devices to your television's corresponding ports.

6. Maintenance and Care

The T-Con board is an internal component and generally requires no routine maintenance. However, proper care of your television can contribute to the longevity of all its internal components, including the T-Con board.

- **Cleaning:** Do not attempt to clean the T-Con board directly. If the TV's back cover is removed for other maintenance, gently use compressed air to remove dust from internal components, ensuring the TV is unplugged.
- **Environment:** Operate your television in a clean, dry environment, away from excessive dust, moisture, and extreme temperatures.
- **Ventilation:** Ensure the television's ventilation openings are clear and unobstructed to allow for proper heat dissipation.

7. Troubleshooting

If you experience issues after installing the T-Con board, consider the following troubleshooting steps. Always ensure the TV is unplugged before opening the casing.

Problem	Possible Cause	Solution
No display or black screen	Loose or improperly connected ribbon cables (LVDS). Power cable not fully seated. Faulty T-Con board (unlikely if new).	Check all ribbon cable connections to the T-Con board and the panel. Ensure power cables are secure. Re-seat the board if necessary.
Distorted image, lines, or incorrect colors	Damaged ribbon cables. Incorrectly seated ribbon cables. Panel issue (not T-Con).	Inspect ribbon cables for damage. Re-seat all ribbon cables. If the issue persists, the problem might be with the display panel itself.
TV powers on but no backlight	Backlight inverter issue. LED strip failure. Power supply board issue.	This is typically not a T-Con board issue. Check the power supply board and backlight connections. Professional diagnosis is recommended.
TV not powering on	Main power supply issue. Main board issue.	Ensure the TV is plugged into a working outlet. This is generally not related to the T-Con board.

If these steps do not resolve the issue, it is recommended to seek assistance from a qualified television repair technician.

8. Specifications

Model Number	6870C-0769A V18_43-65UHD_TM120_v1.0
Compatible For	LG Display Equipment (43-65 inch UHD TVs)
Brand	LDGSUPH
Manufacturer	LDGSUPH
ASIN	B0GD1D4W41
Video Decoding	Supports 4K/8K Ultra HD, HDR quality
Audio Decoding	Supports lossless audio formats (e.g., MKV, MP4)
Interfaces	HDMI 2.1 (4K 120Hz), USB 3.0
Power Consumption	Standby Power ≤ 0.5W
Special Features	Intelligent Sleep Mode, Image Quality Optimization (contrast, color calibration, motion blur reduction)

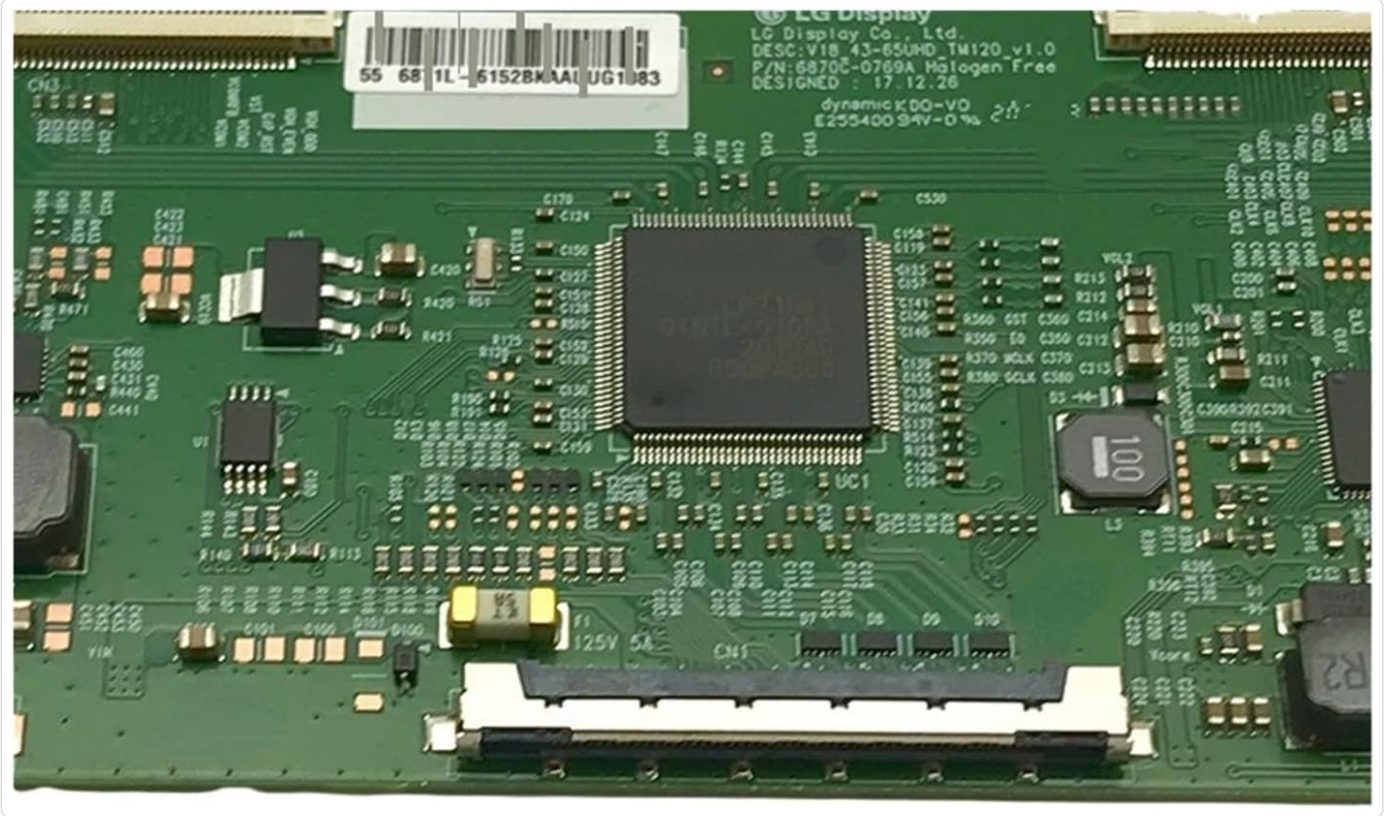


Figure 3: Alternative view of the T-Con Board. This image provides a different perspective of the board's components, useful for identification during installation.

9. Warranty and Support

For warranty information and technical support regarding your LDGSUPH 6870C-0769A T-Con Board, please refer to the documentation provided with your purchase or contact the manufacturer directly. Support contact details are typically available on the product packaging or the manufacturer's official website.

When contacting support, please have your product model number (6870C-0769A V18_43-65UHD_TM120_v1.0) and ASIN (B0GD1D4W41) readily available.

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