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› KLVN Power Module Breakout Board Kits User Manual

KLVN ATX64P6-N02 VER006

KLVN Power Module Breakout Board User Manual

Model: ATX64P6-N02 VER006

PRODUCT OVERVIEW

The KLVN Power Module Breakout Board is designed to provide efficient power distribution for GPU mining rigs or other high-power computing setups, utilizing common slot server power supplies (PSUs). This board facilitates the connection of multiple PCI-E devices to a single PSU, offering a robust and reliable power solution.



Image: KLVN Power Module Breakout Board with included 6-pin to 6+2/8-pin power cables, showcasing the complete kit.

Key Features:

- **Model:** ATX64P6-N02 VER006, ensuring compatibility and performance.
- **Power Compatibility:** Designed for HP 1200W and 750W Common Slot PSUs, supporting power supplies up to 1600 Watts.
- **GPU Connectivity:** Features 12 or 17 built-in PCI-E connectors (depending on variant) for quick and easy connection of graphics cards.
- **Integrated Voltmeter:** An LED display provides real-time voltage readings for monitoring power output.
- **Electronic Power Switch:** Convenient on/off switch for controlling the power supply.
- **Dual PSU Support:** The green power board variant includes a small 4-pin connector to enable simultaneous startup of two PSUs.
- **Durable Construction:** Fine workmanship ensures good performance and a long service life.

SPECIFICATIONS

Attribute	Detail
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Attribute	Detail
Model	ATX64P6-N02 VER006
Supported PSU Wattage	750W - 1600W (HP Common Slot PSUs)
PCI-E Connectors	12 or 17 (depending on board variant)
Cable Type	18AWG 6Pin to 6+2/8Pin Power Cable
Display	Voltmeter LED display
Power Switch	Electronic on/off button
Item Weight	Approximately 1.1 pounds

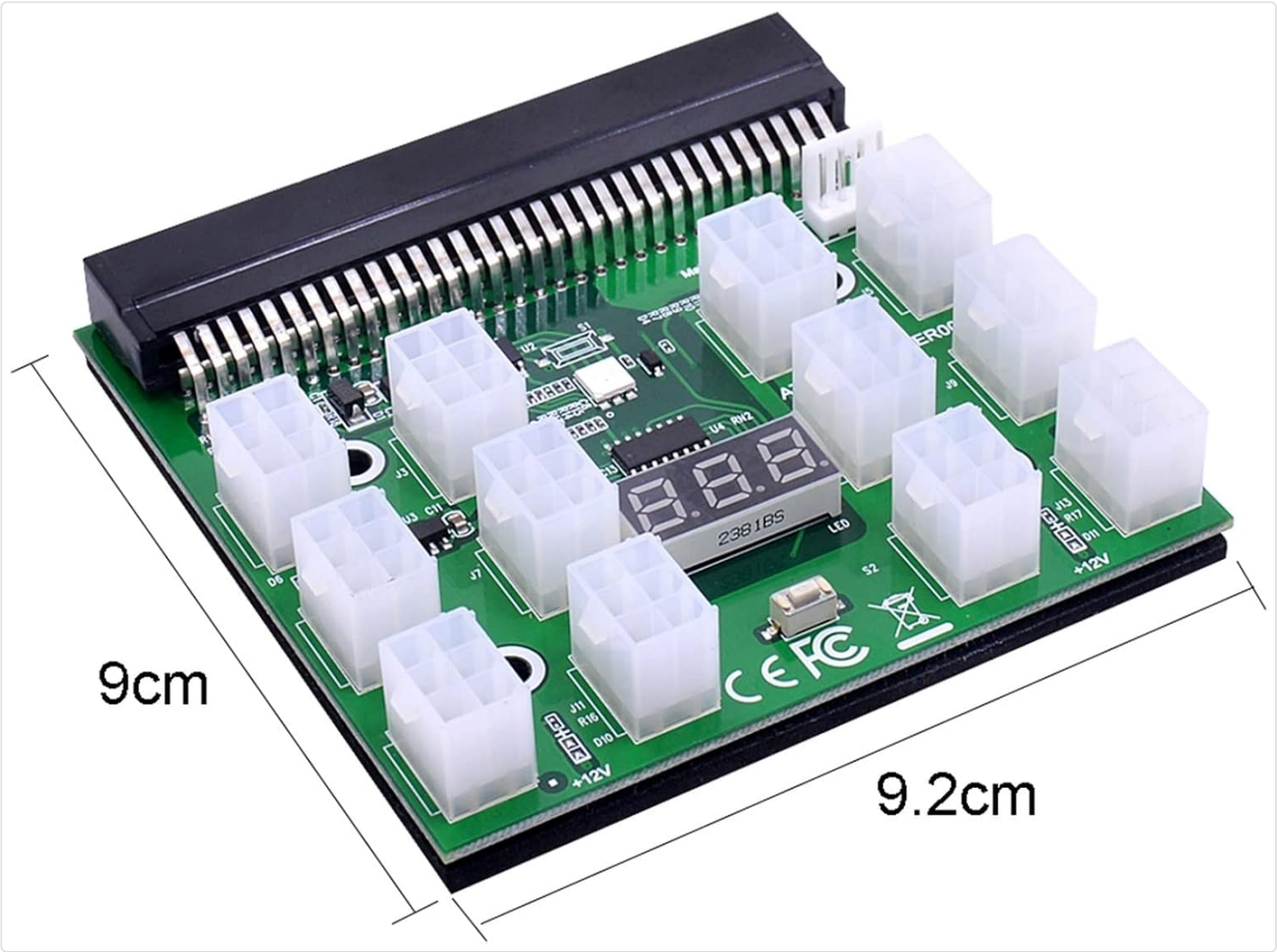


Image: Dimensions of the KLVN Power Module Breakout Board, showing approximate measurements of 9cm by 9.2cm.

SETUP AND INSTALLATION

Proper installation of the KLVN Power Module Breakout Board is crucial for safe and efficient operation. Follow these steps carefully:

- 1. Prepare the PSU:** Ensure your HP Common Slot PSU (e.g., 1200W or 750W models) is disconnected from all power sources.
- 2. Connect Breakout Board:** Carefully align the breakout board with the power connector slot on your PSU. Gently push the board into place until it is securely seated.



Image: The KLVN Power Module Breakout Board securely connected to a compatible server power supply unit (PSU).

3. **Connect PCI-E Cables:** Connect the provided 18AWG 6Pin to 6+2/8Pin power cables to the PCI-E connectors on the breakout board. Ensure each cable is firmly inserted.
4. **Connect to Devices:** Connect the other end of the PCI-E cables to your graphics cards (GPUs) or other components requiring 6-pin or 8-pin power.
5. **Dual PSU Setup (Optional):** If using two PSUs with the green breakout board variant, connect a small 4-pin cable between the two boards to synchronize their power-on sequence.
6. **Power On:** Once all connections are secure, connect your PSU(s) to a power outlet.

Important: Always ensure all connections are secure before applying power to prevent damage to components.

OPERATION

Operating the KLVN Power Module Breakout Board is straightforward:

- **Power On/Off:** Locate the electronic power on/off switch on the board. Press it to power on or power off the connected PSU and components.
- **Voltmeter LED Display:** The integrated LED display will show the current voltage output from the PSU. Monitor this display to ensure stable power delivery. A typical reading for a 12V rail should be around 12.0V.

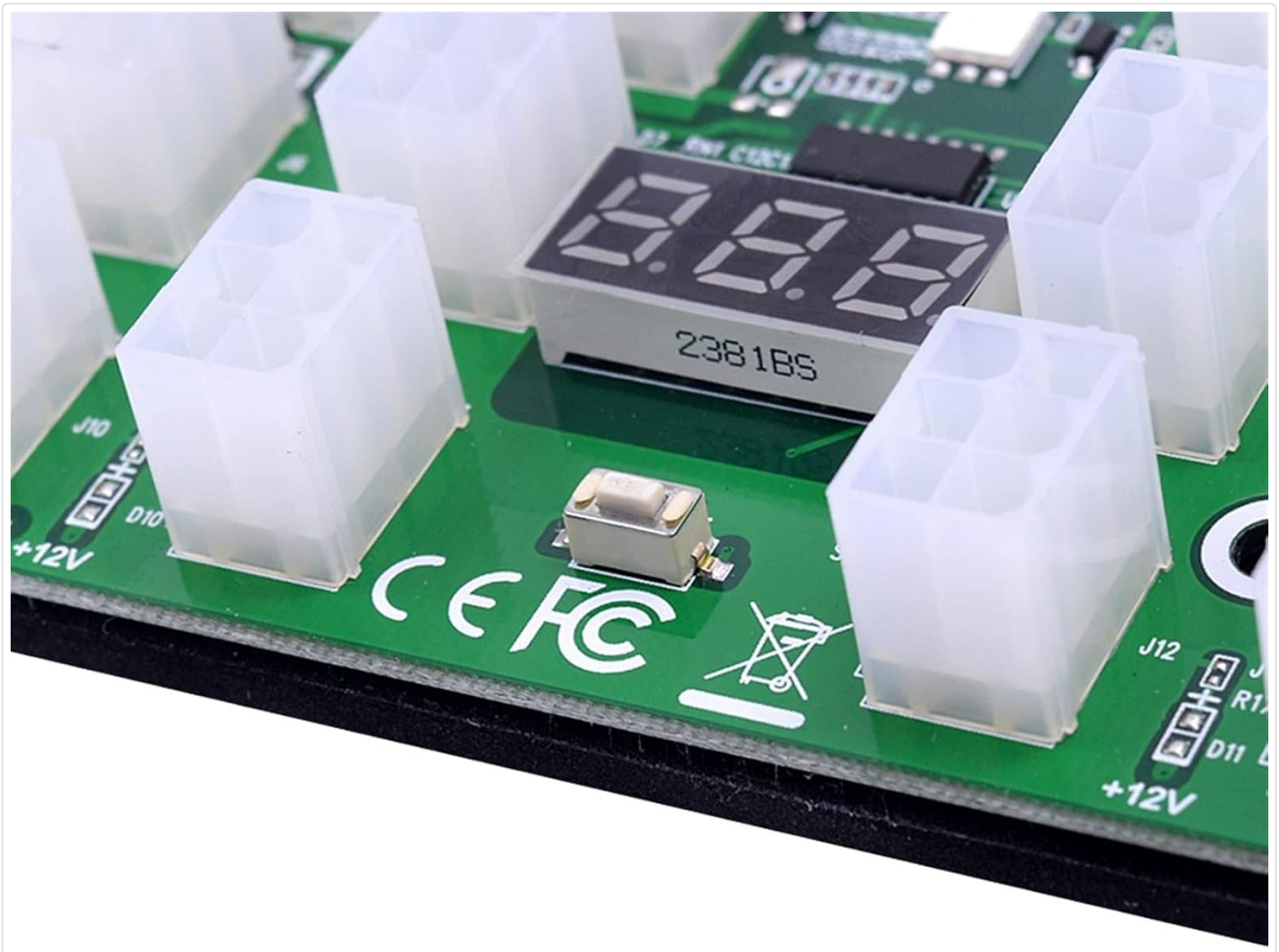


Image: A close-up view of the KLVN Power Module Breakout Board, highlighting the integrated LED voltmeter display and power connectors.

MAINTENANCE

To ensure the longevity and optimal performance of your KLVN Power Module Breakout Board, consider the following maintenance tips:

- **Keep Clean:** Periodically inspect the board and connectors for dust accumulation. Use compressed air or a soft brush to gently remove dust.
- **Ensure Ventilation:** Operate the board in a well-ventilated area to prevent overheating of the PSU and the board itself.
- **Check Connections:** Regularly verify that all power cables are securely connected to both the breakout board and your components. Loose connections can lead to instability or damage.
- **Avoid Moisture:** Keep the board and connected components away from liquids and high humidity environments.

TROUBLESHOOTING

If you encounter issues with your KLVN Power Module Breakout Board, consider these common troubleshooting steps:

- **No Power/Board Not Turning On:**
 - Ensure the PSU is properly connected to a working power outlet.
 - Verify the breakout board is fully seated in the PSU's connector.
 - Check the electronic power on/off switch; ensure it is pressed to the 'on' position.
 - Confirm the PSU itself is functional (e.g., by testing with another load if possible).

- **Voltage Display Issues:**

- If the LED display is blank or shows an incorrect reading, ensure the board is receiving power.
- Fluctuating voltage might indicate an unstable power source or an overloaded PSU.

- **Components Not Receiving Power:**

- Check all PCI-E cable connections from the breakout board to your components.
- Ensure the cables are not damaged.
- Confirm the PSU has sufficient wattage for all connected components.

If problems persist after following these steps, contact customer support for further assistance.

SUPPORTED POWER SUPPLY MODELS

The KLVN Power Module Breakout Board is compatible with various "Common Slot" Power Supply Models, including but not limited to:

- DPS-1200FB A
- DPS-1200QB A
- PS-2751-5Q
- PS-2751-LF-1F
- HSTSN-PL12
- HSTNS-PL11
- HSTNS-PL18
- HSTNS-PD11
- DPS-700LB D
- DPS-750RB A
- PS-2112-5L
- 438202-002
- 441830-001
- 511778-001
- 506821-001
- DL580

SAFETY INFORMATION

Please observe the following safety precautions to prevent injury or damage to the product and connected equipment:

- **Electrical Safety:** Always disconnect power from the PSU before connecting or disconnecting any cables or the breakout board.
- **Proper Environment:** Use the product in a dry, well-ventilated area, away from direct sunlight, heat sources, and moisture.
- **Cable Management:** Ensure cables are routed neatly and are not pinched or under excessive tension.
- **Overload Protection:** Do not exceed the maximum power output of your PSU or the current rating of the breakout board and cables.
- **Professional Installation:** If you are unsure about any installation steps, seek assistance from a qualified technician.

WARRANTY AND SUPPORT

For warranty information or technical support regarding your KLVN Power Module Breakout Board, please refer to the documentation provided with your purchase or contact the seller directly. KLVN is committed to providing high-quality products and customer satisfaction.

You can typically find contact information for support on the product packaging or the retailer's website where the product was purchased.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question