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› Teyleten Robot 24 Pins ATX Power Supply Breakout Board Module Adapter User Manual

Teyleten Robot B0CL26G3XG

Teyleten Robot 24 Pins ATX Power Supply Breakout Board Module Adapter User Manual

Model: B0CL26G3XG

INTRODUCTION

The Teyleten Robot 24 Pins ATX Power Supply Breakout Board Module Adapter is designed to convert a standard ATX power supply into a versatile benchtop power source. This module provides multiple voltage outputs, including 3.3V, 5V, and 12V, and features six USB ports for charging or powering 5V devices.

Key Features:

- Compatible with all 20-pin and 24-pin ATX computer power supplies.
- Six independent USB ports, each capable of outputting 5V at 2A for device charging or power.
- Simultaneous use of all six USB ports without interference.
- Provides multiple voltage outputs for various electronic projects.

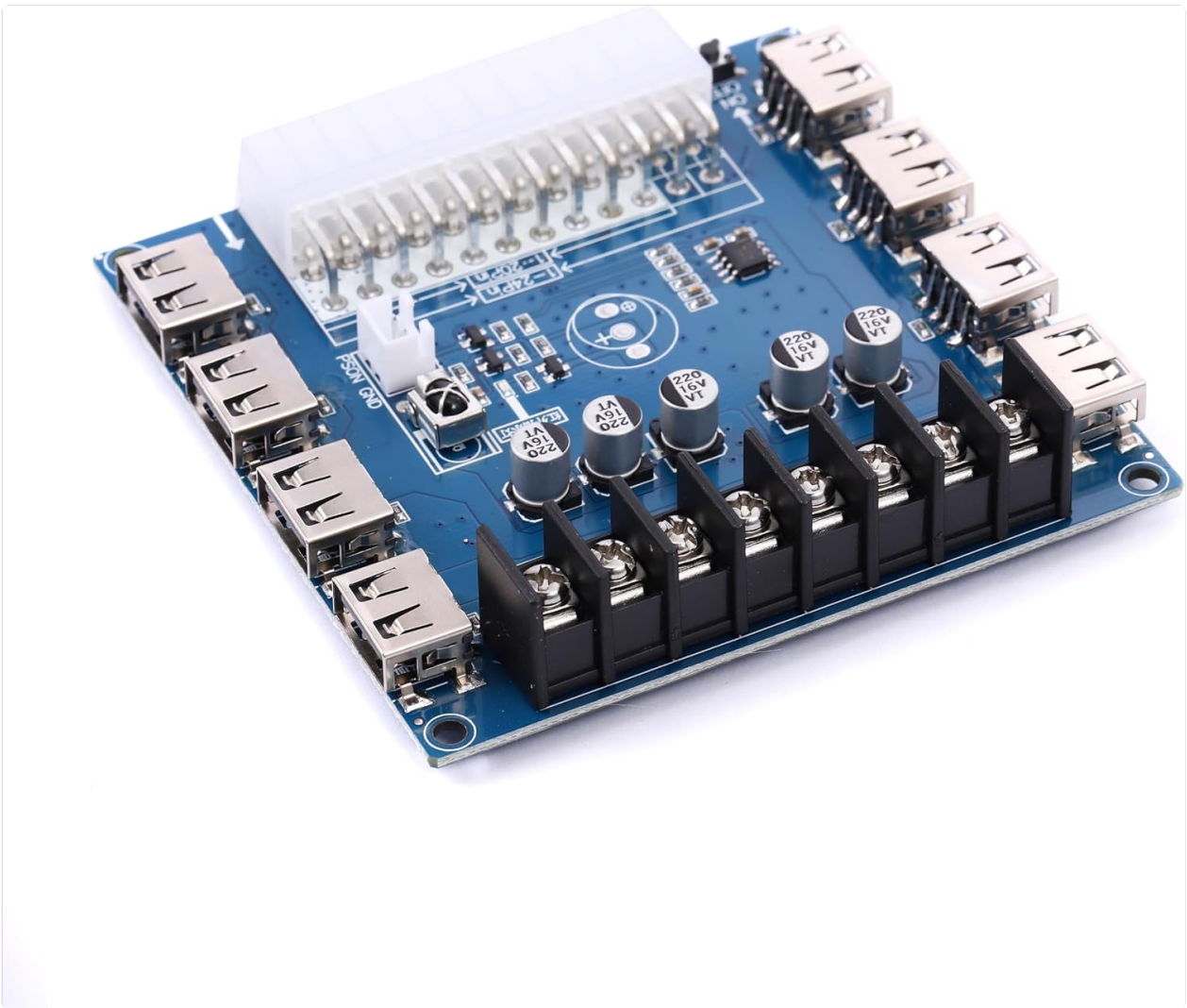


Figure 1: Top view of the Teyleten Robot 24 Pins ATX Power Supply Breakout Board, showing the 24-pin ATX connector, USB ports, and screw terminals.

SETUP INSTRUCTIONS

1. **Prepare ATX Power Supply:** Ensure your ATX power supply is disconnected from the mains power before proceeding.
2. **Connect ATX Power Supply:** Carefully align and insert the 20-pin or 24-pin main power connector from your ATX power supply into the corresponding socket on the breakout board. Ensure a firm connection.

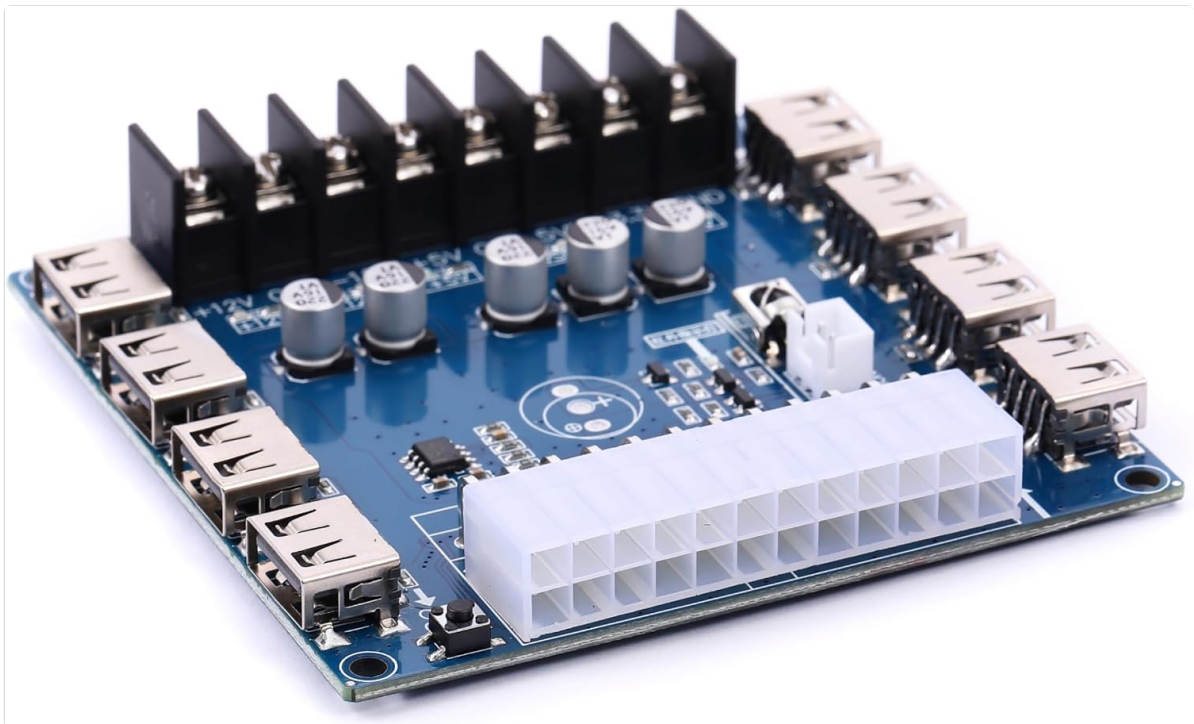


Figure 2: Close-up view of the 24-pin ATX power connector on the breakout board.

3. **Power On:** Connect your ATX power supply to the mains power and switch it on. The breakout board should receive power. Some ATX power supplies require a load or a specific pin (PS_ON) to be shorted to ground to turn on. If your power supply does not turn on automatically, you may need to manually short the green wire (PS_ON) to a black wire (Ground) on the 24-pin connector.
4. **Connect Devices:** You can now connect devices to the USB ports or use the screw terminals for 3.3V, 5V, and 12V outputs.

OPERATING INSTRUCTIONS

The Teyleten Robot Breakout Board provides multiple power outputs for various applications:

- **USB Power Output:**

Each of the six USB ports provides a stable 5V DC output at up to 2A. These ports are suitable for charging smartphones, tablets, or powering small 5V electronic projects. Simply plug your USB device's charging cable into an available USB port on the breakout board.

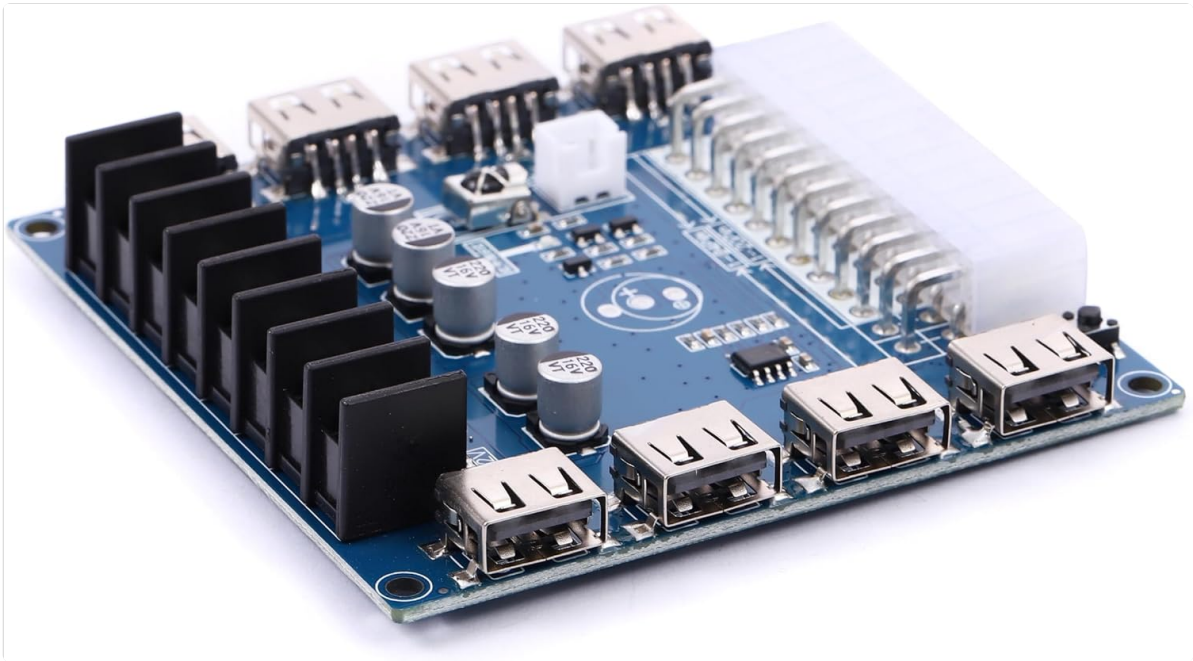


Figure 3: View of the breakout board highlighting the USB output ports and screw terminals.

- **Screw Terminal Voltage Outputs:**

The screw terminals provide access to 3.3V, 5V, and 12V DC outputs from the ATX power supply. Identify the labeled terminals for the desired voltage. Connect your project's power input wires to the appropriate voltage terminal and a ground (GND) terminal. Always verify the voltage requirements of your device before connecting to prevent damage.

Caution: Ensure correct polarity when connecting devices to the screw terminals. Incorrect connections can damage the board or connected devices.

MAINTENANCE

- **Cleaning:** Keep the board clean and free from dust and debris. Use a soft, dry cloth or compressed air to clean the surface. Do not use liquid cleaners.
- **Storage:** When not in use, store the breakout board in a dry, cool environment, away from direct sunlight and moisture.
- **Handling:** Handle the board by its edges to avoid touching components, especially when powered.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No power output from the board.	ATX power supply not turned on or faulty.	Ensure the ATX power supply is connected to mains and switched on. If necessary, manually short the green wire (PS_ON) to a black wire (Ground) on the 24-pin connector to force the power supply to turn on. Test the ATX power supply independently.

Problem	Possible Cause	Solution
USB ports not providing power.	Overload on a USB port or general power issue.	Reduce the load on the USB ports. Ensure the ATX power supply is providing sufficient power. Check if the main board is receiving power.
Device not charging via USB.	Faulty USB cable or device.	Try a different USB cable and/or a different device to isolate the problem.
Incorrect voltage at screw terminals.	Faulty ATX power supply or incorrect connection.	Verify the ATX power supply is functioning correctly. Double-check all connections to the screw terminals for correct voltage and polarity.

SPECIFICATIONS

Feature	Detail
Brand	Teyleten Robot
Model	B0CL26G3XG
Compatible ATX Power Supplies	20-pin and 24-pin
USB Output Voltage	5V DC
USB Output Current (per port)	Up to 2A
Number of USB Ports	6
Screw Terminal Outputs	3.3V, 5V, 12V DC
Maximum Output Wattage	60 Watts
Connector Type	ATX

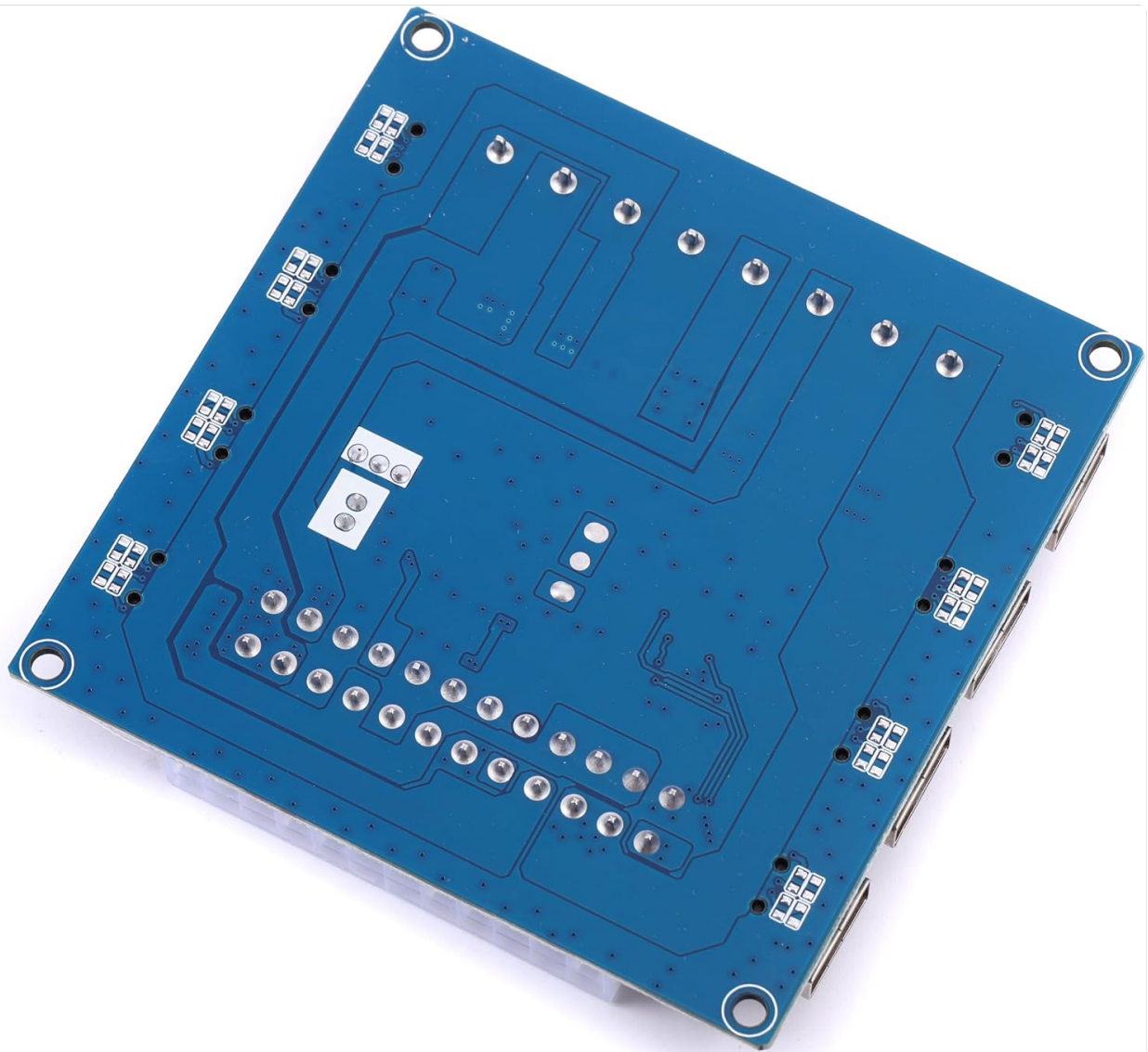


Figure 4: Bottom view of the breakout board, showing the circuit traces.

WARRANTY AND SUPPORT

This product is manufactured by Teyleten Robot. For specific warranty information, please refer to the documentation provided with your purchase or contact the retailer directly. For technical support or inquiries, please visit the official Teyleten Robot website or contact their customer service department.

Note: No specific warranty period or support contact details were provided in the product information.