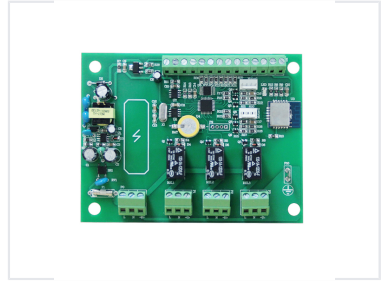
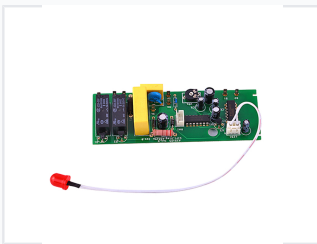


HVAC PCBA Controller

This PCBA controller is designed for HVAC systems. It manages temperature and airflow within air conditioning units.



ADDITIONAL IMAGES



Product Overview

Custom HVAC PCBA Solutions

We specialize in the design and manufacturing of high-performance PCBA controllers tailored for HVAC applications, including air purifiers, dehumidifiers, heaters, and ventilation systems. Our end-to-end OEM/ODM services cover everything from initial concept and prototype development to regulatory certification and mass production. With flexible design processes and robust supply chain management, we help you bring reliable, intelligent control solutions to market efficiently.

Technical Specifications

Control Capabilities

- Real-time temperature monitoring
- Humidity control triggers (50%-90% RH)
- PWM stepless speed control
- Timer and delay-off settings
- Wireless connectivity (WiFi/Bluetooth)
- Infrared remote control support

Key Components

- Relays (e.g., JQX-48F, 133-1A-12DS-F)
- Operational Amplifiers (e.g., LM358)
- Integrated Circuits (e.g., CD4009)
- Battery backup for settings
- Terminal blocks for wiring
- LED indicators

Performance Metrics

12 V

Operating Voltage (DC)

1000 W

Max Load Power

60 °C

Max Operating Temp

Supported Applications

Air Purifiers, Dehumidifiers, Heaters, Ventilators, Blowers, Fans, Humidifiers, Air Conditioners

Service & Manufacturing

Our OEM/ODM Workflow

Phase	Description
Consultation	Defining requirements and application specifications
Prototyping	Building network PCBA controllers for development
Certification	Completing regulatory certifications (CE, UL, FCC)
Production	Mass production, quality control, and logistics