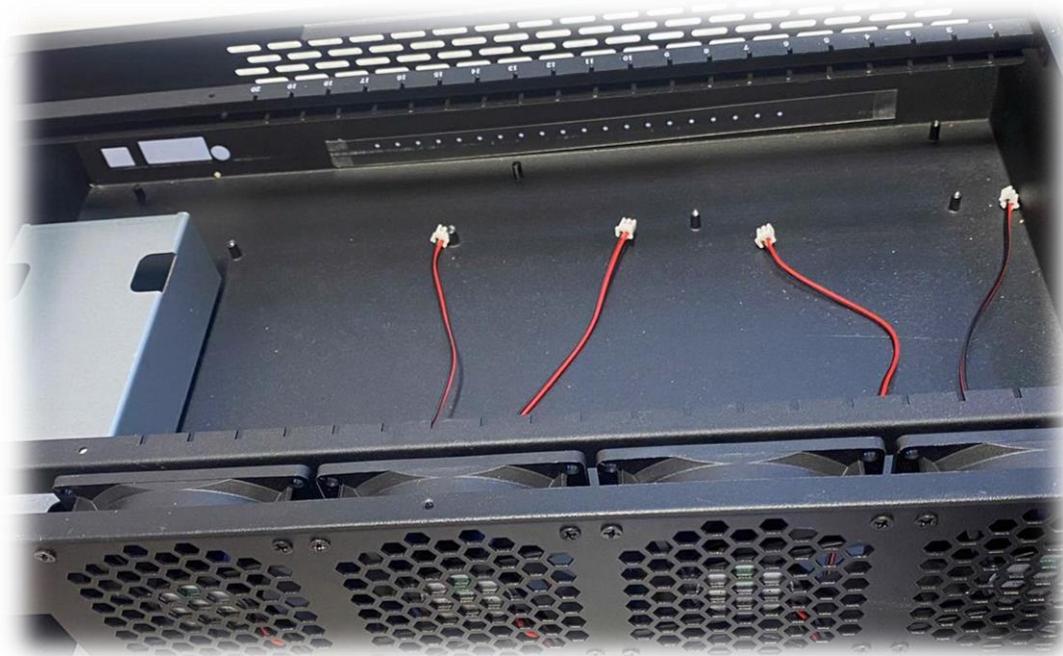


WUC GLOBAL CO. LTD

Box Android Automation Unit (+Switching Power Supply)

Industrial Automation Grade:



Product Identification:

Name: Box Android Automation Unit (+Switching Power Supply)

Application Category: Industrial-grade DC power source

Intended Use: Case and energy distribution for embedded modules, automation clusters and multi-device control systems

Form Factor: Enclosed metal chassis compatible with automation racks

General Description:

- The metal chassis functions as a high-durability structural frame designed to accommodate the power system, control boards, and distribution modules. Its robust construction enhances thermal dissipation, reduces vibrations, and maintains optimal physical alignment of all components during extended operation cycles.
- The Switching Power Supply is designed to deliver stable DC output for high-density automation systems. It provides consistent voltage regulation, thermal endurance and electrical protection required for multi-module operation inside enclosed structures such as automation boxes and electronic control units.

Its architecture enables continuous operation in environments where multiple modules require synchronized and protected energy distribution.

Physical Characteristics

Chassis Material: High-resistance steel with anti-corrosion coating.

Housing Structure:

- Integrated metal enclosure.
- Ventilation grid with multiple 120 mm cooling fans (depending on model).
- Internal compartment for cable routing and mounting.
- Dimensions: Compatible with standard automation rack sizes.

Cooling System:

- Forced air circulation (fan-assisted)
- Lateral ventilation grid for high airflow..
- Installation: Screw-mount rail or bottom-mount plate fixtures.

Electrical Specifications:

- Input Voltage: AC 110–240 V, 50/60 Hz (auto-switching)
- Output Voltage: 12 V DC (typical) or dual-rail depending on model..
- Maximum Output Power: 300 W – 550 W.
- Efficiency: 80% – 90%.

Regulation:

- Low ripple DC output.
- Overvoltage and short-circuit protection.
- Thermal shutdown safety.
- Stability: Designed for continuous multi-load operation.

Connectivity & Interfaces:

Output Connectors: Internal terminals or modular cables depending on configuration

Cooling Fans: 3–4 high-RPM industrial cooling units (as seen in the chassis)

Internal Cable Management: Isolated rail channels for safe power routing

Technical Classification:

- Component Type: Industrial DC Switching Power Supply
- Function: Stable energy delivery for multi-module embedded systems

Typical Integrations:

- Android automation boxes.
- Multi-device electronic racks
- Embedded power distribution units..
- Suggested HS Code: 8504.40.30 (electrical power supply components).

Reliability & Design:

- Continuous operation capability (24/7).
- Reinforced thermal management with dedicated airflow.
- High tolerance to load fluctuation.
- Compliant with general electrical safety standards for industrial components.

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